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**Headquarters**

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

**Warehouse**

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

[sales@powersoft.it](mailto:sales@powersoft.it)  
[powersoft-audio.com](http://powersoft-audio.com)

## Revision History

Version	Date	Updated by	Changes
1.0.0	27/03/2019	F. Digiugno	First Edition
1.0.1	08/10/2019	A. Carello	Align doc with the latests areas
1.0.2	11/10/2019	J. Casamonti	Changed slow meters alarms spare1 to Generic fault
1.0.3	29/10/2019	A. Carello	Add `0x1B` value to <b>ESC</b> character at <a href="#">Par 2.2</a> Add missing $x^{16}+x^{12}+x^5+1$ polynomial at <a href="#">Par 2.3</a>
1.0.4	18/11/2019	A. Carello	Add endianness example at <a href="#">Par 2</a>
1.0.5	19/11/2019	A. Carello	Add UDP port at <a href="#">Par 2</a>
1.0.6	19/11/2019	L. Fibucchi	Remove unused fields
1.1.0	20/11/2019	J. Casamonti	Added new source selection blocks and deprecate old ones.
1.1.1	11/12/2019	L. Fibucchi	Added Fault Code field
1.1.2	23/12/2019	L. Arena	Added Dante Integration fields
1.1.3	24/12/2019	L. Fibucchi	Changed Order of fast meters source selection 3/4
1.1.4	08/01/2020	L. Arena	Updated source fields to new specifics
1.1.5	10/01/2020	L. Arena	Added More Dante Integration fields
1.1.6	14/01/2020	J. Casamonti	Updated slow meters pilot tone detection
1.1.7	19/02/2020	L. Fibucchi	Added GPO fields
1.1.8	06/03/2020	L. Fibucchi	Release adjustments
1.1.9	25/02/2020	L. Arena	Added Zone Block fields
1.1.10	03/04/2020	L. Fibucchi	Added auto power down field
1.1.11	07/04/2020	L. Fibucchi	Removed attack time and release time from clip limiter
1.1.12	07/04/2020	L. Fibucchi	Release candidate
1.1.13	23/04/2020	L. Fibucchi	Removed unused flag from pilotTone fields
1.1.15	26/05/2020	L. Fibucchi	Added load default parameters command
1.1.17	16/06/2020	L. Fibucchi	Added GPI scaled value and GPI config
1.1.19	16/06/2020	L. Fibucchi	Added Minijack anti-pop, mute flags, fault flags and GPO state
1.1.21	18/06/2020	L. Fibucchi	Added High Over Temperature field
1.1.22	15/07/2020	A. Carello	Remove bureaucratic section
1.2.0	02/07/2020	L. Fibucchi	Released version 1.2.0
1.2.2	21/07/2020	L. Fibucchi	Removed unused fields in Ways Diagnostic
1.2.3	18/09/2020	L. Fibucchi	Added OEM empty spare area

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Bibliography

PWS00: , Telnet commands specifications, 2017

### 1. Purpose of this document

The purpose of this document is to depict communication protocol used to communicate with Mezzo MCU.

#### 1.1 Definitions

**Equipment or amplifier** is the Mezzo

**Remote controller** is the software, running on a PC or on another device, that is enabled to communicate with Equipment

#### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

#### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

[sales@powersoft.it](mailto:sales@powersoft.it)  
[powersoft-audio.com](http://powersoft-audio.com)

## 2. Protocol description

The protocol is structured as master/slave where the remote control program running on a PC is the master and the amplifier is slave.

Communication will take place on a LAN Ethernet infrastructure, and uses UDP packet. **All packets must be sent to UDP port 8002**

All data bigger than 1 byte are represented in **little endian** if not otherwise specified, please see the example below that explain the endianness.

### Example [\[ edit | edit wikitext \]](#)

In the case of a WORD (16 bit), the number hexadecimal 0x0123 will be stored as:

Little endian	Big endian
+-----+	+-----+
0x23 0x01	0x01 0x23
+-----+	+-----+
byte: 0 1	0 1

## 2.1. Packet structure

The protocol is asymmetrical: the request end response frame are slightly different..

### 2.1.1. Request frame

All packets sent from PC to a device will be further defined request. A generic request packet is composed by the following fields:

Head	TAG	PBus command	...	CRC16	Tail
1 byte	4 bytes	variable	...	2 bytes	1 byte

where:

- **Head** is a fixed value, corresponding to the ASCII code **STX (0x02)**.
- **TAG** is a binary tag to be echoed back into reply, used by software to associate the reply with the issued command.
- **PBus** command is a single encapsulation of a PBus operation. In a Pbus frame can be encapsulated more PBus command, this feature is called Multicommand. The PBus command will be explained in section [Errore: sorgente del riferimento non trovata.](#)
- **CRC16** is a 2 bytes value, computed as the rule presented in the paragraph [##](#). It is computed only on the grey part of the frame.
- **Tail** is a fixed value, corresponding to ASCII code **ETX (0x03)**.

Since some packets could contain binary data, an escaping strategy has been adopted, refer to the paragraph [##](#) for more information. The escaping is adopted for the whole frame except Head and Tail. As a consequence CRC16 is computed before escaping.

A request packet can be as long as 2000 byte (plain bytes not escaped), as a consequence 1992 bytes are available for pbus commands.

### 2.1.2. Response frame

All packets received from the PC (sent by a device), will be further defined replies. A reply has always the same TAG of the command that generated it and has the following structure:

Head	Magic	ProtocolID	TAG	PBus command	...	CRC16	Tail
	Number			Reply	...		
1 byte	3 bytes	2 bytes	4 bytes	variable	...	2 bytes	1 byte

where:

- **Head** is a fixed value, corresponding to the ASCII code **STX (0x02)**.
- **Magic** Number is 3 byte field that must be populated with 'M', 'Z', 'O' (0x4D, 0x5A, 0x4F).
- **Protocol ID** is an identification of protocol frame such as version etc. Mezzo uses protocol identified by **0x0001**.
- **TAG** is a binary tag echoed back from the last issued command.
- **PBus command reply** is a single encapsulation of a PBus operation reply. In multicommand contest every PBus command encapsulated in a single protocol frame needs a PBus command reply encapsulated in a reply.
- **CRC16** is a 2 bytes value, computed as the rule presented in the paragraph [Errore: sorgente del riferimento non trovata.](#) It is computed only on the grey part of the frame.

#### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

#### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

- Tail is a fixed value, corresponding to ASCII code **ETX (0x03)**.

## 2.2. Escaping strategy

Since the protocol is binary some byte in the frame could assume the same value of **STX** or **ETX**, so an escaping strategy will take place.

In order to avoid the transmission of the special bytes **STX**, **ETX** and **ESC** an escaping strategy has been adopted.

In case a special byte is found within the packet, an **ESC (0x1B)** character is issued in the output buffer followed by the special byte incremented by **0x40** (i.e. **STX** becomes **ESC** followed by **0x42**, since 0x42 is the sum of STX [0x02] and 0x40).

The escaping strategy involves all fields of packets (request or response), excluding **Head** and **Tail**.

Below a code snippet shows an example of the escaping and un-escaping routines:

## 2.3 CRC16 computation

Each packet contains a CRC16. The checksum value is computed before applying the escaping strategy. The CRC algorithm is the CRC16-CCITT that uses  $x^{16}+x^{12}+x^5+1$  polynomial

A code snippet used to compute CRC16 is provided below:

```
const uint16_t crc16tab[256] = {
    0x0000, 0x1021, 0x2042, 0x3063, 0x4084, 0x50a5, 0x60c6, 0x70e7,
    0x8108, 0x9129, 0xa14a, 0xb16b, 0xc18c, 0xd1ad, 0xe1ce, 0xf1ef,
    0x1231, 0x0210, 0x3273, 0x2252, 0x52b5, 0x4294, 0x72f7, 0x62d6,
    0x9339, 0x8318, 0xb37b, 0xa35a, 0xd3bd, 0xc39c, 0xf3ff, 0xe3de,
    0x2462, 0x3443, 0x0420, 0x1401, 0x64e6, 0x74c7, 0x44a4, 0x5485,
    0xa56a, 0xb54b, 0x8528, 0x9509, 0xe5ee, 0xf5cf, 0xc5ac, 0xd58d,
    0x3653, 0x2672, 0x1611, 0x0630, 0x76d7, 0x66f6, 0x5695, 0x46b4,
    0xb75b, 0xa77a, 0x9719, 0x8738, 0xf7df, 0xe7fe, 0xd79d, 0xc7bc,
    0x48c4, 0x58e5, 0x6886, 0x78a7, 0x0840, 0x1861, 0x2802, 0x3823,
    0xc9cc, 0xd9ed, 0xe98e, 0xf9af, 0x8948, 0x9969, 0xa90a, 0xb92b,
    0x5af5, 0x4ad4, 0x7ab7, 0x6a96, 0x1a71, 0x0a50, 0x3a33, 0x2a12,
    0xdbfd, 0xcdbc, 0xfbfb, 0xeb9e, 0x9b79, 0x8b58, 0xbb3b, 0xab1a,
    0x6ca6, 0x7c87, 0x4ce4, 0x5cc5, 0x2c22, 0x3c03, 0x0c60, 0x1c41,
    0xedaе, 0xfd8f, 0xcdеc, 0xddcd, 0xad2a, 0xbd0b, 0x8d68, 0x9d49,
    0x7e97, 0x6eb6, 0x5ed5, 0x4ef4, 0x3e13, 0x2e32, 0x1e51, 0x0e70,
    0xff9f, 0xefbe, 0xdfdd, 0xcffc, 0xbf1b, 0xaf3a, 0x9f59, 0x8f78,
    0x9188, 0x81a9, 0xb1ca, 0xa1eb, 0xd10c, 0xc12d, 0xf14e, 0xe16f,
    0x1080, 0x00a1, 0x30c2, 0x20e3, 0x5004, 0x4025, 0x7046, 0x6067,
    0x83b9, 0x9398, 0xa3fb, 0xb3da, 0xc33d, 0xd31c, 0xe37f, 0xf35e,
    0x02b1, 0x1290, 0x22f3, 0x32d2, 0x4235, 0x5214, 0x6277, 0x7256,
    0xb5ea, 0xa5cb, 0x95a8, 0x8589, 0xf56e, 0xe54f, 0xd52c, 0xc50d,
    0x34e2, 0x24c3, 0x14a0, 0x0481, 0x7466, 0x6447, 0x5424, 0x4405,
    0xa7db, 0xb7fa, 0x8799, 0x97b8, 0xe75f, 0xf77e, 0xc71d, 0xd73c,
    0x26d3, 0x36f2, 0x0691, 0x16b0, 0x6657, 0x7676, 0x4615, 0x5634,
    0xd94c, 0xc96d, 0xf90e, 0xe92f, 0x99c8, 0x89e9, 0xb98a, 0xa9ab,
    0x5844, 0x4865, 0x7806, 0x6827, 0x18c0, 0x08e1, 0x3882, 0x28a3,
    0xcb7d, 0xdb5c, 0xeb3f, 0xfb1e, 0x8bf9, 0x9bd8, 0xabbb, 0xbb9a,
    0x4a75, 0x5a54, 0x6a37, 0x7a16, 0x0af1, 0x1ad0, 0x2ab3, 0x3a92,
    0xfd2e, 0xed0f, 0xdd6c, 0xcd4d, 0xbdaа, 0xad8b, 0x9de8, 0x8dc9,
    0x7c26, 0x6c07, 0x5c64, 0x4c45, 0x3ca2, 0x2c83, 0x1ce0, 0x0cc1,
    0xef1f, 0xff3e, 0xcf5d, 0xdf7c, 0xaf9b, 0xbfba, 0x8fd9, 0x9ff8,
    0x6e17, 0x7e36, 0x4e55, 0x5e74, 0x2e93, 0x3eb2, 0x0ed1, 0x1ef0
};

uint16_t crc16(uint16_t crc, const void *buffer, size_t len)
{
    const unsigned char *buf = (const unsigned char *)buffer;
    while(len--)
        crc = (crc16tab[((crc) >> 8) ^ ((unsigned char)(*buf++))] ^ ((crc) << 8))

    return crc;
}
```

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

A code snippet used to compute the crc table is provided below:

```
/* the CRC polynomial. */
#define P 0x1021

/* number of bits in CRC: don't change it. */
#define W 16

/* this the number of bits per char: don't change it. */
#define B 8

void initcrctab(void)
{
    int b, v, i;

    for( b = 0; b <= (1<< B)-1; ++b )
    {
        for( v = b<<(W-B), i = B; --i >= 0; )
            v = v&0x8000 ? (v<<1)^P : v<<1;
        crc16tab[b] = v;
    }
}
```

**Headquarters**

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

**Warehouse**

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

[sales@powersoft.it](mailto:sales@powersoft.it)  
[powersoft-audio.com](http://powersoft-audio.com)

### 3. PBus Commands

PBus follows the memory mapped paradigm. That is to say that all values that can be read or write from Remote Control Program are grouped together in a logical basis. All values that affect a specific feature and have similar needs about access (read only or read/write, etc.) are grouped in a pbus **area**.

An application that runs PBus protocol must define an address space containing a number of areas that can be addressed by pbus command according to access constraints defined for the single areas.

The addresses are 32 bit wide.

The PBus command represents a generic operation. The operation is defined at least by an address (to refer into a defined area in the address space) and a length (to know the extent of the operation).

The PBus command encapsulated in both request and reply frame have the same structure:

OPCODE	ADDR32	SIZE32	DATA
1 byte	4 bytes	4 bytes	variable

- **OPCODE** is command (operation) code.
- **ADDR32** is address field as previously described. It represents "where" to apply command.
- **SIZE32** is the length (extent) of the operation.
- **DATA** is an optional field depending on the operation. It contains the data stream involved in the operation.

PBus requests with LEN 0 are forbidden; The LEN 0 is reserved in replies to indicate a **NAK**. For example, suppose the equipment defines an area from 0x01030000 to 0x01030100; a PBus command can request an operation at address 0x01030050 and length 10; for that request a reply will take place. Instead, if the request is at address 0x010300F0 and length is 100, the reply will be a NAK (in other words, a pbus command reply with len 0).

In general, a request defines an area (address + len) where an operation must be performed. This request area must be inclusive in a defined area, otherwise a NAK reply will be generated.

#### 3.1. Pbus Read Command 'R' (0x52)

PBus command for the read operation is:

Field	Offset	Size	Description
<b>OPCODE</b>	0	1	'R' (0x52)
<b>ADDR32</b>	1	4	Address where to start reading.
<b>SIZE32</b>	5	4	Length of data involved in the read

Reply for read command is:

Field	Offset	Size	Description
<b>OPCODE</b>	0	1	'R' (0x52)
<b>ADDR32</b>	1	4	The address where reading has taken place. Is the same value of issue command
<b>SIZE32</b>	5	4	Size of data stream involved in the read operation
<b>DATA</b>	9	SIZE32	Data stream read back at address ADDR32 with length SIZE32.

Note: if the operation cannot be performed, the reply will have SIZE32 0 and no DATA field. This is NAK condition.

Replies with SIZE32 different from issue command are not allowed.

Example of read command:

STX	2143A3FF	R	00030100	00000004	CRC16	ETX
-----	----------	---	----------	----------	-------	-----

Example of reply:

STX	4D5A4F	0001	2143A3FF	R	00030100	00000004	76E31003	CRC16	ETX
-----	--------	------	----------	---	----------	----------	----------	-------	-----

Example of NAK reply:

STX	4D5A4F	0001	2143A3FF	R	00030100	00000000	CRC16	ETX
-----	--------	------	----------	---	----------	----------	-------	-----

#### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

#### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

### 3.2. Pbus Write Command 'W' (0x57)

PBus command for the write operation is:

Field	Offset	Size	Description
OPCODE	0	1	'W' (0x57)
ADDR32	1	4	Address where to start writing.
SIZE32	5	4	Length of data involved in the write
DATA	9	SIZE32	Data stream to be wrote at address ADDR32 with length SIZE32.

Reply for write command is:

Field	Offset	Size	Description
OPCODE	0	1	'W' (0x57)
ADDR32	1	4	The address where writing has take place. Is the same value of issue command
SIZE32	5	4	Size of data stream involved in the write operation

Note: if the operation cannot be performed reply will have SIZE32 0. This is NAK condition.

Replies with SIZE32 different from issued command are not allowed.

Example of write command:

STX	23D47F30	W	B4022A00	00000001	3F	CRC16	ETX
-----	----------	---	----------	----------	----	-------	-----

Example of reply:

STX	4D5A4F	0001	23D47F30	W	B4022A00	00000001	CRC16	ETX
-----	--------	------	----------	---	----------	----------	-------	-----

Example of NAK reply:

STX	4D5A4F	0001	23D47F30	W	B4022A00	00000000	CRC16	ETX
-----	--------	------	----------	---	----------	----------	-------	-----

### 3.3. Pbus Erase Command 'E' (0x45)

PBus command for the erase operation is:

Field	Offset	Size	Description
OPCODE	0	1	'E' (0x45)
ADDR32	1	4	Address where to start erasing.
SIZE32	5	4	Length of data to be erased.

Reply for write command is:

Field	Offset	Size	Description
OPCODE	0	1	'E' (0x45)
ADDR32	1	4	The address where writing has take place. Is the same value of issue command
SIZE32	5	4	Size of data stream involved in the write operation

Note: if the operation cannot be performed reply will have SIZE32 0. This is NAK condition.

Replies with SIZE32 different from issued command are not allowed.

Example of erase command:

STX	930045F4	E	300FA030	00000120	CRC16	ETX
-----	----------	---	----------	----------	-------	-----

Example of reply:

STX	4D5A4F	0001	930045F4	E	300FA030	00000120	CRC16	ETX
-----	--------	------	----------	---	----------	----------	-------	-----

Example of NAK reply:

STX	4D5A4F	0001	930045F4	E	300FA030	00000000	CRC16	ETX
-----	--------	------	----------	---	----------	----------	-------	-----

#### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

#### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com



### 3.4. Pbus Crc Command 'C' (0x43)

PBus command for the crc operation is:

Field	Offset	Size	Description
OPCODE	0	1	'C' (0x43)
ADDR32	1	4	Address where to start CRC computing.
SIZE32	5	4	Length of data involved in computation of CRC

Reply for write command is:

Field	Offset	Size	Description
OPCODE	0	1	'C' (0x43)
ADDR32	1	4	The address where writing has take place. Is the same value of issue command
SIZE32	5	4	Size of data stream involved in the write operation
DATA (CRC16)	9	2	CRC16 computed on data at address ADDR32 and length SIZE32. It is expressed in little endian.

Note: if the operation cannot be performed reply will have SIZE32 0. This is NAK condition.

Replies with SIZE32 different from issued command are not allowed.

Example of crc command:

STX	A2349AB4	C	00AF1000	00000400	CRC16	ETX
-----	----------	---	----------	----------	-------	-----

Example of reply:

STX	4D5A4F	0001	A2349AB4	C	00AF1000	00000400	C13A	CRC16	ETX
-----	--------	------	----------	---	----------	----------	------	-------	-----

Example of NAK reply:

STX	4D5A4F	0001	A2349AB4	C	00AF1000	00000000	CRC16	ETX
-----	--------	------	----------	---	----------	----------	-------	-----

### 3.5. Protocol Frame Examples

For the subsequent examples suppose that equipment defines 3 only areas in his PBus address space:

Unused	Area 1 (r--c) 0x00001000 ~ 0x00002000	Area 2 (rw--) 0x00002000 ~ 0x00002010	Unused	Area 3 (rwec) 0x00002300 ~ 0x00003000	Unused
--------	--	--	--------	--	--------

Area 1 and Area 2 are adjoined, and all areas have different access right, that is to say that is forbidden to write in Area 1, or erase Area 2. Area 3 has full access rights.

The forthcoming examples shows some erroneous cases.

#### 3.5.1. Example: operation not permitted

request

STX	764234A3	W	00001010	00000004	01234567	CRC16	ETX
-----	----------	---	----------	----------	----------	-------	-----

This request involves Area 1 (address 0x00001010) and generates a NAK reply because the write operation cannot be performed on Area 1; only read and crc operation are permitted for this area.

#### 3.5.2. Example: operation across two areas

STX	5467A4CF	R	00002000	00000400	CRC16	ETX
-----	----------	---	----------	----------	-------	-----

The operation requested begins in Area 2 (0x00002000) but would finish in Area 3 (from 0x00002300 on).

Unused	Area 1 (r--c) 0x00001000 ~ 0x00002000	Area 2 (rw--) 0x00002000 ~ 0x00002010	Unused	Area 3 (rwec) 0x00002300 ~ 0x00003000	Unused
Read operation requested 0x00002000 ~ 0x000023FF					

This is not allowed and generates a NAK reply. No matter if the request operation is permitted for all areas involved. Only one area can be involved in an operation.

#### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

#### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

### 3.5.3. Example: another operation across two areas

Request:

STX	AA3426C3	R	00001FF0	00000200	CRC16	ETX
-----	----------	---	----------	----------	-------	-----

The operation requested begins in Area 1 (0x00001FF0) but would finish in Area 2 (from 0x00002000 to 0x0000200F).

Unused	Area 1 (r--c) 0x00001000 ~ 0x00002000	Area 2 (rw--) 0x00002000 ~ 0x00002010	Unused	Area 3 (rwec) 0x00002300 ~ 0x00003000	Unused
	Read operation requested 0x00002000 ~ 0x000023FF				

This is not allowed and generates a NAK reply. No matter if the request operation involve contiguous areas. Only one area can be involved in an operation.

### 3.5.4. Example: operation on unallocated address space

Request:

STX	34453D3C	C	00004000	00000180	CRC16	ETX
-----	----------	---	----------	----------	-------	-----

The address 0x04004000 is unallocated space. No areas are defined there, so this request generates a NAK reply.

### 3.5.5. Example: unknown operation

Request:

STX	C1B8C3B0	Q	00001000	00000004	12A467A5	CRC16	ETX
-----	----------	---	----------	----------	----------	-------	-----

The OPCODE is none of known operation ('R', 'W', 'E' or 'C'). It could be not possible to parse that frame (for example, we cannot know if data field is present or not, we know only for known opcode). We must consider it as a corrupted frame and no replies will be generated.

### 3.5.6. Example: malformed frame

Request:

STX	DA7A3498	C	00001100	00000004	12A467A5	CRC16	ETX
-----	----------	---	----------	----------	----------	-------	-----

The PBus command for this opcode doesn't admit presence of DATA field<sup>1</sup>. This frame cannot be validate. We must consider it as a corrupted frame and no replies will be generated.

### 3.5.7. Example: another malformed frame

Request:

STX	62378A34	W	00001A00	00000010	010203	CRC16	ETX
-----	----------	---	----------	----------	--------	-------	-----

The request involves Area 2 that support write operation, but DATA field is shorter than expected<sup>2</sup>. Only 3 bytes are present instead of 16 bytes declared in SIZE32 field. We must consider it as a corrupted frame and no replies will be generated.

### 3.5.8. Example: CRC16 error

Request:

STX	78932A34	E	00002400	00000140	xxxx	ETX
-----	----------	---	----------	----------	------	-----

Crc computed on this frame doesn't match the value in CRC16 field. We must consider it as a corrupted frame and no replies will be generated.

- 
1. Parser cannot make any assumption on the presence of DATA field during parsing since there is no special character to bound a PBus command. It must assume that no DATA is present so first byte of DATA field will be treat as OPCODE of a subsequent PBus command. Length control will invalidate this frame.
  2. Parser must assume that SIZE32 bytes are present in DATA field. Length control will invalidate this frame.
- 

#### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

#### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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### 3.6. Protocol frame example with multicommand

The forthcoming examples show some frame with multicommand with more emphasis on erroneous cases. Consider the preceding address space mapping.

#### 3.6.1. Example: correct multicommand

Request

STX	DF3452B2	PBus command 1	PBus command 2	PBus command 3	CRC16	ETX
R	00001020	00000002 W	00002000 00000002	37A2 E	00002400	00000100

This request involves all defined areas. All commands are correct and the reply will be:

STX	4D5A4F	0001	DF3452B2	PBus cmd reply 1	PBus cmd reply 2	PBus cmd reply 3	CRC16	ETX
R	00001020	00000002	4455 W	00002000	00000002 E	00002400	00000100	

The commands are executed sequentially from left to right (from command 1 to command n). Note that it is possible to request more operation on the same area (same addresses) in a single multicommand.

#### 3.6.2. Example: multicommand with error

Request

STX	7643D4F4	PBus command 1	PBus command 2	PBus command 3	CRC16	ETX
C	00001100	00000100 C	00002000 00000010	E	00002400	00000100

Reply

STX	4D5A4F	0001	7643D4F4	PBus cmd reply 1	PBus cmd reply 2	PBus cmd reply 3	CRC16	ETX
C	00001100	00000100	CD4F C	00002000	00000010	E	00002400	00000100

PBus command 2 request to perform a crc operation on Area 2 that does not support crc. Only PBus command reply 2 will be a NAK.

In general only failed command 1 will populate the reply with NAK, no matter of the position in multicommand or outcome of other commands (if any) in multicommand.

#### 3.6.3. Example: another multicommand with error

Request:

STX	9483A3AA	PBus command 1	PBus command 2	PBus command 3	CRC16	ETX
R	00002008	00000010 E	00002300 00000008	W	00003400 00000006	A3DE341556FF

Reply

STX	4D5A4F	0001	9483A3AA	PBus cmd reply 1	PBus cmd reply 2	PBus cmd reply 3	CRC16	ETX
R	00002008	00000000	E	00002300	00000008	W	00003400	00000000

PBus command 1 fails due to a read operation that exceeds area 2 limits. PBus command 3 wants to write to unallocated addresses.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

#### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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### 3.6.4. Example: further multicommand with error

Request:

STX	345344AF	PBus command 1	PBus command 2	PBus command 3	PBus command 4	CRC16	ETX
R	0000101A	00000010	E 00002300	00000008	A 00003400	00000006	A3DE C 04002500 00000D00
				↑	↑	↑	

This multicommand request cannot be parsed. PBus command 3 must be consider corrupted due to the reasons below:

- The failure is intended to be such as a NAK replies can be generated, instead of a corrupted frame request.

- **OPCODE** 'A' is unknown.

- **SIZE32** and size of DATA field doesn't match1

Anyone of the points above by itself may suffice to invalidate PBus command 3. Since it is not be feasible to parse PBus command 3, also any subsequent PBus commands cannot be parsed.

No reply is generated for this request.

### 3.6.5. Example: false positive

The case presented below is one that should be considered wrong, because the request is malformed or corrupted, but it cannot be possible to establish the wrongness of request. And an operation is performed by mistake.

Request:

STX	AA2435E4	PBus command 1	PBus command 2	CRC16	ETX
W	00002300	0000000C	142A36	C 00001F00	00000100
		↑	↑	9 bytes	

This request should be considered as corrupted, but due to the circumstance it will be considered as correct frame composed by a single PBus command.

Indeed in PBus command 1 is asked a write operation on Area 3, 10 bytes length but DATA field contains only 3 bytes. The subsequent PBus command 2 takes 9 bytes (1 byte for OPCODE, 4 for ADDR32, and 4 for SIZE32). Parse cannot help but consider PBus command 2 as part of DATA field of PBus command 1, no matter if PBus command 2 is formerly and syntactically correct or not. Only its length is important.

- In this case parser would consider DATA field of PBus command 3 to be 6 bytes, so it assumes that the first bytes of PBus command 4 to belong DATA field of PBus command 3. Syntax verification and length control will invalidate this frame.

In this case a write operation will be performed and the reply will be:

STX	4D5A4F	0001	AA2435E4	W	00002300	0000000C	CRC16	ETX
-----	--------	------	----------	---	----------	----------	-------	-----

Since every PBus command issued should generate a PBus command reply, the Remote Control Program should establish an error condition, but a mistaken operation is already performed.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

#### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Mezzo

This is the Mezzo Protocol

BlockId	Start Address	End Address	Description
<a href="#">Info</a>	0x00000000	0x00000510	This area contains general informations related to the device.
<a href="#">Network</a>	0x00001000	0x0000130c	This area contains network informations related to the device. It is divided in the following areas:
<a href="#">Source selection</a>	0x00002000	0x00002554	This area contains informations related to the amplifiers sources.
<a href="#">Matrix</a>	0x00003000	0x00003068	This area contains informations related to the Matrix.
<a href="#">User</a>	0x00004000	0x00004280	This area contains informations related to the User block.
<a href="#">Speaker Layout</a>	0x00005000	0x000062f4	This area contains informations related to the output routing.
<a href="#">Ways</a>	0x00007000	0x00007950	This area contains informations related to the amplifiers ways.
<a href="#">Dante routing</a>	0x00008500	0x00008518	This area contains informations related to Dante Routing.
<a href="#">GPI configuration</a>	0x00009000	0x00009004	This area contains informations related to GPI.
<a href="#">GPO configuration</a>	0x00009e00	0x00009e0c	This area contains informations related to GPO.
<a href="#">Power config</a>	0x0000a000	0x0000a00c	This area contains informations related to Standby and Power Configuration.
<a href="#">Readings</a>	0x0000b000	0x0000bbd0	This area contains informations related to amplifier readings like meters.
<a href="#">AutoSetup</a>	0x0000c000	0x0000ef04	This area contains informations related to the autosetup.
<a href="#">Zone Block</a>	0x0000f000	0x0000f340	This area contains informations related to the amplifiers zones.
<a href="#">Dante Settings</a>	0x00010000	0x000120b1	This area contains UXT chip informations about status and settings. It includes as well available commands.
<a href="#">OEM Spare Area</a>	0x00013000	0x00013100	Empty Spare Area dedicated to OEM.
<a href="#">Blink</a>	0x00100000	0x00100001	The blink command
<a href="#">System Reboot</a>	0x00100001	0x00100002	The system reboot command
<a href="#">Load Default Parameters</a>	0x00100002	0x00100003	Equivalent to an hardware Hard Reset
<a href="#">Firmware Area</a>	0x00700000	0x00800000	This area contains the firmware. The max size for firmware is 1048576
<a href="#">Firmware Start</a>	0x00900000	0x00900006	This area contains the new firmware information, use this to verify the firmware before flash it
<a href="#">Firmware Flash Erase</a>	0x00900010	0x00900011	This will start the upgrade firmware

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Info

This area contains general informations related to the device. It is divided in the following two(2) areas:

BlockId	Start Address	End Address	Description
<a href="#">Read only area data struct</a>	0x00000000	0x0000007a	Readonly informations
<a href="#">Read write client area</a>	0x000000f4	0x00000510	Readonly informations

## Read only area data struct

Readonly informations

Offset	Name	Type	Dim	R \ W	Description															
0x00000000 (0)	Model	char[20]	20	R	String NULL terminated representing the Model ID															
0x00000014 (20)	SerialNumber	char[16]	16	R	tring NULL terminated representing the serial number															
0x00000024 (36)	ManufacturerID	char[20]	20	R	String NULL terminated representing the manufacturer identifier															
0x00000038 (56)	ManufacturerModel	char[20]	20	R	String NULL terminated representing the manufacturer model identifier															
0x0000004c (76)	ManufacturerSerialNumber	char[20]	20	R	String NULL terminated representing the manufacturer serial number															
0x00000060 (96)	FWInfo	char[20]	20	R	String NULL terminated representing the firmware version															
0x00000074 (116)	MAC Address	uint8[6]	6	R	Actual (running) MAC address expressed in big endian. For example if MAC address is 00:1D:C1:AA:BB:CC, bytes are:															
					<table><tr><th>offset</th><th>bytes</th></tr><tr><td>0x00</td><td>0x00</td></tr><tr><td>0x01</td><td>0x1D</td></tr><tr><td>0x02</td><td>0xC1</td></tr><tr><td>0x03</td><td>0xAA</td></tr><tr><td>0x04</td><td>0xBB</td></tr><tr><td>0x05</td><td>0xCC</td></tr></table>		offset	bytes	0x00	0x00	0x01	0x1D	0x02	0xC1	0x03	0xAA	0x04	0xBB	0x05	0xCC
					offset	bytes														
					0x00	0x00														
					0x01	0x1D														
					0x02	0xC1														
					0x03	0xAA														
					0x04	0xBB														
0x05	0xCC																			

## Read write client area

Readonly informations

BlockId	Start Address	End Address	Description
<a href="#">NickName</a>	0x000000f4	0x00000144	NickName
<a href="#">HiddenClientSpare</a>	0x00000050c	0x000000510	Spare area for client usage

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## NickName

NickName

Offset	Name	Type	Dim	R \ W	Description
0x000000f4 (244)	NickName	char[20]	80	R\W	String NULL terminated representing the device Nick name (set from the client)

## HiddenClientSpare

Spare area for client usage

Offset	Name	Type	Dim	R \ W	Description
--------	------	------	-----	-------	-------------

## Network

This area contains network informations related to the device. It is divided in the following areas:

BlockId	Start Address	End Address	Description
<a href="#">NetworkSettings</a>	0x00001000	0x0000100d	Network Settings
<a href="#">NetworkInformations</a>	0x00001300	0x0000130c	Read only area containing network informations

## NetworkSettings

Network Settings

BlockId	Start Address	End Address	Description
<a href="#">Network configuration data struct</a>	0x00001000	0x0000100d	Network configurations

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

[sales@powersoft.it](mailto:sales@powersoft.it)  
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## Network configuration data struct

Network configurations

Offset	Name	Type	Dim	R \ W	Description										
0x00001000 (4096)	AddressMode	uint8	1	RW	If 1 set the equipment to use a static IP address. In the case Ip address and netmask are set by the appropriate fiend. If equal to 0, the equipment is set to dynamic address, using DHCP (or IAuto-IP)										
0x00001001 (4097)	IPAddress	uint8[4]	4	RW	Is the IP address. This field is used only if address mode is 0 (static IP). Is expressed in big endian. <table><tr><th>offset</th><th>bytes</th></tr><tr><td>0x00</td><td>0xC0 (192)</td></tr><tr><td>0x01</td><td>0xA8 (168)</td></tr><tr><td>0x02</td><td>0x37 ( 55)</td></tr><tr><td>0x03</td><td>0x6C (108)</td></tr></table>	offset	bytes	0x00	0xC0 (192)	0x01	0xA8 (168)	0x02	0x37 ( 55)	0x03	0x6C (108)
offset	bytes														
0x00	0xC0 (192)														
0x01	0xA8 (168)														
0x02	0x37 ( 55)														
0x03	0x6C (108)														
0x00001005 (4101)	NetMask	uint8[4]	4	RW	Is the NetMask address. This field is used only if address mode is 0 (static IP). Is expressed in big endian. <table><tr><th>offset</th><th>bytes</th></tr><tr><td>0x00</td><td>0xC0 (192)</td></tr><tr><td>0x01</td><td>0xA8 (168)</td></tr><tr><td>0x02</td><td>0x37 ( 55)</td></tr><tr><td>0x03</td><td>0x6C (108)</td></tr></table>	offset	bytes	0x00	0xC0 (192)	0x01	0xA8 (168)	0x02	0x37 ( 55)	0x03	0x6C (108)
offset	bytes														
0x00	0xC0 (192)														
0x01	0xA8 (168)														
0x02	0x37 ( 55)														
0x03	0x6C (108)														
0x00001009 (4105)	DefaultGW	uint8[4]	4	RW	Is the default gateway address. This field is used only if address mode is 0 (static IP). Is expressed in big endian.										

## NetworkInformations

Read only area containing network informations

Offset	Name	Type	Dim	R \ W	Description
0x00001300 (4864)	IPAddress	uint8[4]	4	R	Is the IP address. Is expressed in big endian.
0x00001304 (4868)	NetMask	uint8[4]	4	R	Is the NetMask address. Is expressed in big endian.
0x00001308 (4872)	DefaultGW	uint8[4]	4	R	Is the default gateway address. Is expressed in big endian.

## Source selection

This area contains informations related to the amplifiers sources.

BlockId	Start Address	End Address	Description
<a href="#">Amplifier input references</a>	0x00002000	0x00002010	
<a href="#">Old Sources</a>	<del>0x00002100</del>	<del>0x000021a8</del>	
<a href="#">Sources</a>	0x00002200	0x000022c4	
<a href="#">Minjack Anti-Pop Configuration</a>	0x00002500	0x00002554	This area contains the configurations related to Minjack Anti-Pop.

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Amplifier input references

Offset	Name	Type	Dim	R \ W	Description
0x00002000 (8192)	Analog Ref	Float	4	R\W	Analog source reference in linear
0x00002004 (8196)	Analog Delay	Float	4	R\W	Analog delay in s
0x00002008 (8200)	Digital Ref	Float	4	R\W	Digital source reference in linear
0x0000200c (8204)	Digital Delay	Float	4	R\W	Digital delay in s

## Old Sources

Deprecated since version 1.1.1

BlockId	Start Address	End Address	Description
<a href="#">Priority1 Type</a>	0x00002100	0x00002108	
<a href="#">Priority1 Channel</a>	0x00002108	0x00002110	
<a href="#">Priority2 Type</a>	0x00002110	0x00002118	
<a href="#">Priority2 Channel</a>	0x00002118	0x00002120	
<a href="#">BackupStrategyEnable</a>	0x00002120	0x00002124	
<a href="#">PilotToneEnable</a>	0x00002124	0x00002128	
<a href="#">Backup threshold mode</a>	0x00002128	0x00002138	
<a href="#">User digital threshold</a>	0x00002138	0x00002148	
<a href="#">User analog threshold</a>	0x00002148	0x00002158	
<a href="#">Pilot tone freq</a>	0x00002158	0x00002168	
<a href="#">Pilot tone high threshold</a>	0x00002168	0x00002178	
<a href="#">Pilot tone low threshold</a>	0x00002178	0x00002188	
<a href="#">External trigger</a>	0x00002188	0x00002198	
<a href="#">External input</a>	0x00002198	0x000021a8	

## Priority1 Type

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x00002100 (8448)	Priority1 Type CH 1	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)
0x00002102 (8450)	Priority1 Type CH 2	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)
0x00002104 (8452)	Priority1 Type CH 3	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)
0x00002106 (8454)	Priority1 Type CH 4	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
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## Priority1 Channel

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x00002108 (8456)	Priority1 Channel CH 1	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)
0x0000210a (8458)	Priority1 Channel CH 2	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)
0x0000210c (8460)	Priority1 Channel CH 3	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)
0x0000210e (8462)	Priority1 Channel CH 4	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)

## Priority2 Type

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x00002110 (8464)	Priority2 Type CH 1	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)
0x00002112 (8466)	Priority2 Type CH 2	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)
0x00002114 (8468)	Priority2 Type CH 3	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)
0x00002116 (8470)	Priority2 Type CH 4	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)

## Priority2 Channel

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x00002118 (8472)	Priority2 Channel CH 1	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)
0x0000211a (8474)	Priority2 Channel CH 2	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)
0x0000211c (8476)	Priority2 Channel CH 3	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)
0x0000211e (8478)	Priority2 Channel CH 4	Uint16	2	R\W	Enum representing the first priority for the selected source. For the allowed values for this field refer to ... (TODO)

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## BackupStrategyEnable

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x00002120 (8480)	BackupStrategyEnable CH 1	uint8	1	R\W	if set to 0 backup strategy is disabled, if set to 1 is enabled
0x00002121 (8481)	BackupStrategyEnable CH 2	uint8	1	R\W	if set to 0 backup strategy is disabled, if set to 1 is enabled
0x00002122 (8482)	BackupStrategyEnable CH 3	uint8	1	R\W	if set to 0 backup strategy is disabled, if set to 1 is enabled
0x00002123 (8483)	BackupStrategyEnable CH 4	uint8	1	R\W	if set to 0 backup strategy is disabled, if set to 1 is enabled

## PilotToneEnable

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x00002124 (8484)	PilotToneEnable CH 1	uint8	1	R\W	if set to 0 pilot tone is disabled, if set to 1 is enabled
0x00002125 (8485)	PilotToneEnable CH 2	uint8	1	R\W	if set to 0 pilot tone is disabled, if set to 1 is enabled
0x00002126 (8486)	PilotToneEnable CH 3	uint8	1	R\W	if set to 0 pilot tone is disabled, if set to 1 is enabled
0x00002127 (8487)	PilotToneEnable CH 4	uint8	1	R\W	if set to 0 pilot tone is disabled, if set to 1 is enabled

## Backup threshold mode

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x00002128 (8488)	Backup threshold mode CH 1	Uint32	4	R\W	Enum representing the backup threshold mode to be used. For the allowed values for this field refer to ...(TODO)
0x0000212c (8492)	Backup threshold mode CH 2	Uint32	4	R\W	Enum representing the backup threshold mode to be used. For the allowed values for this field refer to ...(TODO)
0x00002130 (8496)	Backup threshold mode CH 3	Uint32	4	R\W	Enum representing the backup threshold mode to be used. For the allowed values for this field refer to ...(TODO)
0x00002134 (8500)	Backup threshold mode CH 4	Uint32	4	R\W	Enum representing the backup threshold mode to be used. For the allowed values for this field refer to ...(TODO)

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## User digital threshold

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x00002138 (8504)	User digital threshold CH 1	Float	4	R\W	User defined threshold for digital signal in linear
0x0000213c (8508)	User digital threshold CH 2	Float	4	R\W	User defined threshold for digital signal in linear
0x00002140 (8512)	User digital threshold CH 3	Float	4	R\W	User defined threshold for digital signal in linear
0x00002144 (8516)	User digital threshold CH 4	Float	4	R\W	User defined threshold for digital signal in linear

## User analog threshold

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x00002148 (8520)	User analog threshold CH 1	Float	4	R\W	User defined threshold for analog signal in linear
0x0000214c (8524)	User analog threshold CH 2	Float	4	R\W	User defined threshold for analog signal in linear
0x00002150 (8528)	User analog threshold CH 3	Float	4	R\W	User defined threshold for analog signal in linear
0x00002154 (8532)	User analog threshold CH 4	Float	4	R\W	User defined threshold for analog signal in linear

## Pilot tone freq

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x00002158 (8536)	Pilot tone freq CH 1	Float	4	R\W	Pilot tone frequency in Hz
0x0000215c (8540)	Pilot tone freq CH 2	Float	4	R\W	Pilot tone frequency in Hz
0x00002160 (8544)	Pilot tone freq CH 3	Float	4	R\W	Pilot tone frequency in Hz
0x00002164 (8548)	Pilot tone freq CH 4	Float	4	R\W	Pilot tone frequency in Hz

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Pilot tone high threshold

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x00002168 (8552)	Pilot tone high threshold CH 1	Float	4	R\W	Pilot tone high threshold in Hz
0x0000216c (8556)	Pilot tone high threshold CH 2	Float	4	R\W	Pilot tone high threshold in Hz
0x00002170 (8560)	Pilot tone high threshold CH 3	Float	4	R\W	Pilot tone high threshold in Hz
0x00002174 (8564)	Pilot tone high threshold CH 4	Float	4	R\W	Pilot tone high threshold in Hz

## Pilot tone low threshold

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x00002178 (8568)	Pilot tone low threshold CH 1	Float	4	R\W	Pilot tone low threshold
0x0000217c (8572)	Pilot tone low threshold CH 2	Float	4	R\W	Pilot tone low threshold
0x00002180 (8576)	Pilot tone low threshold CH 3	Float	4	R\W	Pilot tone low threshold
0x00002184 (8580)	Pilot tone low threshold CH 4	Float	4	R\W	Pilot tone low threshold

## External trigger

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x00002188 (8584)	External trigger CH 1	Uint32	4	R\W	Enum representing the External trigger to activate
0x0000218c (8588)	External trigger CH 2	Uint32	4	R\W	Enum representing the External trigger to activate
0x00002190 (8592)	External trigger CH 3	Uint32	4	R\W	Enum representing the External trigger to activate
0x00002194 (8596)	External trigger CH 4	Uint32	4	R\W	Enum representing the External trigger to activate

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## External input

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x00002198 (8600)	External input CH 1	UInt32	4	R\W	Enum representing the GPI input to be used to select the source. For the GPI Input configuration see TODO
0x0000219c (8604)	External input CH 2	UInt32	4	R\W	Enum representing the GPI input to be used to select the source. For the GPI Input configuration see TODO
0x000021a0 (8608)	External input CH 3	UInt32	4	R\W	Enum representing the GPI input to be used to select the source. For the GPI Input configuration see TODO
0x000021a4 (8612)	External input CH 4	UInt32	4	R\W	Enum representing the GPI input to be used to select the source. For the GPI Input configuration see TODO

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Sources

BlockId	Start Address	End Address	Description
<a href="#">Source Id CH 1</a>	0x00002200	0x00002204	Enum representing the source absolute ids for the channel 1. Allowd values [-1 -> 31]
<a href="#">Source Id CH 2</a>	0x00002204	0x00002208	Enum representing the source absolute ids for the channel 2. Allowd values [-1 -> 31]
<a href="#">Source Id CH 3</a>	0x00002208	0x0000220c	Enum representing the source absolute ids for the channel 3. Allowd values [-1 -> 31]
<a href="#">Source Id CH 4</a>	0x0000220c	0x00002210	Enum representing the source absolute ids for the channel 4. Allowd values [-1 -> 31]
<a href="#">Priority Source index CH 1</a>	0x00002210	0x00002214	Enum representing the source index for the priority of channel 1 . Allowed values [0 -> 3]
<a href="#">Priority Source index CH 2</a>	0x00002214	0x00002218	Enum representing the source index for the priority of channel 2 . Allowed values [0 -> 3]
<a href="#">Priority Source index CH 3</a>	0x00002218	0x0000221c	Enum representing the source index for the priority of channel 3 . Allowed values [0 -> 3]
<a href="#">Priority Source index CH 4</a>	0x0000221c	0x00002220	Enum representing the source index for the priority of channel 4 . Allowed values [0 -> 3]
<a href="#">Default priority index</a>	0x00002220	0x00002224	Enum representing the default priority index of the selected channel. Allowed values [0 -> 3]
<a href="#">Manual physical source selection</a>	0x00002224	0x00002228	if set to 0 manual source selection is disabled, if set to -1 channel is muted, otherwise value is
<a href="#">BackupStrategyEnable</a>	0x00002228	0x0000222c	if set to 0 backup strategy is disabled, if set to 1 is enabled
<a href="#">Backup threshold mode</a>	0x0000222c	0x00002230	Enum representing the backup threshold mode to be used. If 0 it is the regular backup strategy. If 1 is backup strategy with backup threshold.
<a href="#">Backup threshold</a>	0x00002230	0x00002270	Thresholds for signal
<a href="#">PilotToneEnable</a>	0x00002270	0x00002274	if set to 0 pilot tone is disabled, if set to 1 is enabled
<a href="#">Pilot tone freq</a>	0x00002274	0x00002284	Pilot tone frequency in Hz
<a href="#">Pilot tone high threshold</a>	0x00002284	0x00002294	Pilot tone high threshold in Hz
<a href="#">Pilot tone low threshold</a>	0x00002294	0x000022a4	Pilot tone low threshold
<a href="#">Pilot tone GPO enable</a>	0x000022a4	0x000022b4	Enable the ability to trigger the GPO in absence of pilot tone

## Source Id CH 1

Enum representing the source absolute ids for the channel 1. Allowd values [-1 -> 31]

Offset	Name	Type	Dim	R \ W	Description
0x00002200 (8704)	Source 1 Id CH 1	Int8	1	R\W	Enum representing the source absolute id for the source 1 of channel 1. Allowd values [-1 -> 31]
0x00002201 (8705)	Source 2 Id CH 1	Int8	1	R\W	Enum representing the source absolute id for the source 2 of channel 1. Allowd values [-1 -> 31]
0x00002202 (8706)	Source 3 Id CH 1	Int8	1	R\W	Enum representing the source absolute id for the source 3 of channel 1. Allowd values [-1 -> 31]
0x00002203 (8707)	Source 4 Id CH 1	Int8	1	R\W	Enum representing the source absolute id for the source 4 of channel 1. Allowd values [-1 -> 31]

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Source Id CH 2

Enum representing the source absolute ids for the channel 2. Allowd values [-1 -> 31]

Offset	Name	Type	Dim	R \ W	Description
0x00002204 (8708)	Source 1 Id CH 2	Int8	1	R\W	Enum representing the source absolute id for the source 1 of channel 2. Allowd values [-1 -> 31]
0x00002205 (8709)	Source 2 Id CH 2	Int8	1	R\W	Enum representing the source absolute id for the source 2 of channel 2. Allowd values [-1 -> 31]
0x00002206 (8710)	Source 3 Id CH 2	Int8	1	R\W	Enum representing the source absolute id for the source 3 of channel 2. Allowd values [-1 -> 31]
0x00002207 (8711)	Source 4 Id CH 2	Int8	1	R\W	Enum representing the source absolute id for the source 4 of channel 2. Allowd values [-1 -> 31]

## Source Id CH 3

Enum representing the source absolute ids for the channel 3. Allowd values [-1 -> 31]

Offset	Name	Type	Dim	R \ W	Description
0x00002208 (8712)	Source 1 Id CH 3	Int8	1	R\W	Enum representing the source absolute id for the source 1 of channel 3. Allowd values [-1 -> 31]
0x00002209 (8713)	Source 2 Id CH 3	Int8	1	R\W	Enum representing the source absolute id for the source 2 of channel 3. Allowd values [-1 -> 31]
0x0000220a (8714)	Source 3 Id CH 3	Int8	1	R\W	Enum representing the source absolute id for the source 3 of channel 3. Allowd values [-1 -> 31]
0x0000220b (8715)	Source 4 Id CH 3	Int8	1	R\W	Enum representing the source absolute id for the source 4 of channel 3. Allowd values [-1 -> 31]

## Source Id CH 4

Enum representing the source absolute ids for the channel 4. Allowd values [-1 -> 31]

Offset	Name	Type	Dim	R \ W	Description
0x0000220c (8716)	Source 1 Id CH 4	Int8	1	R\W	Enum representing the source absolute id for the source 1 of channel 4. Allowd values [-1 -> 31]
0x0000220d (8717)	Source 2 Id CH 4	Int8	1	R\W	Enum representing the source absolute id for the source 2 of channel 4. Allowd values [-1 -> 31]
0x0000220e (8718)	Source 3 Id CH 4	Int8	1	R\W	Enum representing the source absolute id for the source 3 of channel 4. Allowd values [-1 -> 31]
0x0000220f (8719)	Source 4 Id CH 4	Int8	1	R\W	Enum representing the source absolute id for the source 4 of channel 4. Allowd values [-1 -> 31]

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

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Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Priority Source index CH 1

Enum representing the source index for the priority of channel 1 . Allowed values [0 -> 3]

Offset	Name	Type	Dim	R \ W	Description
0x00002210 (8720)	Priority 1 source index CH 1	UInt8	1	RW	Enum representing the source index for the priority 1 of channel 1. Allowed values [0 -> 3]
0x00002211 (8721)	Priority 2 source index CH 1	UInt8	1	RW	Enum representing the source index for the priority 2 of channel 1. Allowed values [0 -> 3]
0x00002212 (8722)	Priority 3 source index CH 1	UInt8	1	RW	Enum representing the source index for the priority 3 of channel 1. Allowed values [0 -> 3]
0x00002213 (8723)	Priority 4 source index CH 1	UInt8	1	RW	Enum representing the source index for the priority 4 of channel 1. Allowed values [0 -> 3]

## Priority Source index CH 2

Enum representing the source index for the priority of channel 2 . Allowed values [0 -> 3]

Offset	Name	Type	Dim	R \ W	Description
0x00002214 (8724)	Priority 1 source index CH 2	UInt8	1	RW	Enum representing the source index for the priority 1 of channel 2. Allowed values [0 -> 3]
0x00002215 (8725)	Priority 2 source index CH 2	UInt8	1	RW	Enum representing the source index for the priority 2 of channel 2. Allowed values [0 -> 3]
0x00002216 (8726)	Priority 3 source index CH 2	UInt8	1	RW	Enum representing the source index for the priority 3 of channel 2. Allowed values [0 -> 3]
0x00002217 (8727)	Priority 4 source index CH 2	UInt8	1	RW	Enum representing the source index for the priority 4 of channel 2. Allowed values [0 -> 3]

## Priority Source index CH 3

Enum representing the source index for the priority of channel 3 . Allowed values [0 -> 3]

Offset	Name	Type	Dim	R \ W	Description
0x00002218 (8728)	Priority 1 source index CH 3	UInt8	1	RW	Enum representing the source index for the priority 1 of channel 3. Allowed values [0 -> 3]
0x00002219 (8729)	Priority 2 source index CH 3	UInt8	1	RW	Enum representing the source index for the priority 2 of channel 3. Allowed values [0 -> 3]
0x0000221a (8730)	Priority 3 source index CH 3	UInt8	1	RW	Enum representing the source index for the priority 3 of channel 3. Allowed values [0 -> 3]
0x0000221b (8731)	Priority 4 source index CH 3	UInt8	1	RW	Enum representing the source index for the priority 4 of channel 3. Allowed values [0 -> 3]

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50018 Scandicci, FI, Italy  
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Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Priority Source index CH 4

Enum representing the source index for the priority of channel 4 . Allowed values [0 -> 3]

Offset	Name	Type	Dim	R \ W	Description
0x0000221c (8732)	Priority 1 source index CH 4	UInt8	1	RW	Enum representing the source index for the priority 1 of channel 4. Allowed values [0 -> 3]
0x0000221d (8733)	Priority 2 source index CH 4	UInt8	1	RW	Enum representing the source index for the priority 2 of channel 4. Allowed values [0 -> 3]
0x0000221e (8734)	Priority 3 source index CH 4	UInt8	1	RW	Enum representing the source index for the priority 3 of channel 4. Allowed values [0 -> 3]
0x0000221f (8735)	Priority 4 source index CH 4	UInt8	1	RW	Enum representing the source index for the priority 4 of channel 4. Allowed values [0 -> 3]

## Default priority index

Enum representing the default priority index of the selected channel. Allowed values [0 -> 3]

Offset	Name	Type	Dim	R \ W	Description
0x00002220 (8736)	Default priority index CH 1	UInt8	1	RW	Enum representing the default priority index of channel 1. Allowed values [0 -> 3]
0x00002221 (8737)	Default priority index CH 2	UInt8	1	RW	Enum representing the default priority index of channel 2. Allowed values [0 -> 3]
0x00002222 (8738)	Default priority index CH 3	UInt8	1	RW	Enum representing the default priority index of channel 3. Allowed values [0 -> 3]
0x00002223 (8739)	Default priority index CH 4	UInt8	1	RW	Enum representing the default priority index of channel 4. Allowed values [0 -> 3]

## Manual physical source selection

if set to 0 manual source selection is disabled, if set to -1 channel is muted, otherwise value is

Offset	Name	Type	Dim	R \ W	Description
0x00002224 (8740)	ManualSourceSelection CH 1	int8	1	RW	if set to 0 manual source selection is disabled, if set to -1 channel is muted, otherwise value is
0x00002225 (8741)	ManualSourceSelection CH 2	int8	1	RW	if set to 0 manual source selection is disabled, if set to -1 channel is muted, otherwise value is
0x00002226 (8742)	ManualSourceSelection CH 3	int8	1	RW	if set to 0 manual source selection is disabled, if set to -1 channel is muted, otherwise value is
0x00002227 (8743)	ManualSourceSelection CH 4	int8	1	RW	if set to 0 manual source selection is disabled, if set to -1 channel is muted, otherwise value is

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

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Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## BackupStrategyEnable

if set to 0 backup strategy is disabled, if set to 1 is enabled

Offset	Name	Type	Dim	R \ W	Description
0x00002228 (8744)	BackupStrategyEnable CH 1	uint8	1	R\W	if set to 0 backup strategy is disabled, if set to 1 is enabled
0x00002229 (8745)	BackupStrategyEnable CH 2	uint8	1	R\W	if set to 0 backup strategy is disabled, if set to 1 is enabled
0x0000222a (8746)	BackupStrategyEnable CH 3	uint8	1	R\W	if set to 0 backup strategy is disabled, if set to 1 is enabled
0x0000222b (8747)	BackupStrategyEnable CH 4	uint8	1	R\W	if set to 0 backup strategy is disabled, if set to 1 is enabled

## Backup threshold mode

Enum representing the backup threshold mode to be used. If 0 it is the regular backup strategy. If 1 is backup strategy with backup threshold.

Offset	Name	Type	Dim	R \ W	Description
0x0000222c (8748)	Backup threshold mode CH 1	Uint8	1	R\W	Enum representing the backup threshold mode to be used. If 0 it is the regular backup strategy. If 1 is backup strategy with backup threshold.
0x0000222d (8749)	Backup threshold mode CH 2	Uint8	1	R\W	Enum representing the backup threshold mode to be used. If 0 it is the regular backup strategy. If 1 is backup strategy with backup threshold.
0x0000222e (8750)	Backup threshold mode CH 3	Uint8	1	R\W	Enum representing the backup threshold mode to be used. If 0 it is the regular backup strategy. If 1 is backup strategy with backup threshold.
0x0000222f (8751)	Backup threshold mode CH 4	Uint8	1	R\W	Enum representing the backup threshold mode to be used. If 0 it is the regular backup strategy. If 1 is backup strategy with backup threshold.

## Backup threshold

Thresholds for signal

BlockId	Start Address	End Address	Description
<a href="#">Thresholds CH 1</a>	0x00002230	0x00002240	Thresholds for signal
<a href="#">Thresholds CH 2</a>	0x00002240	0x00002250	Thresholds for signal
<a href="#">Thresholds CH 3</a>	0x00002250	0x00002260	Thresholds for signal
<a href="#">Thresholds CH 4</a>	0x00002260	0x00002270	Thresholds for signal

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

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50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Thresholds CH 1

Thresholds for signal

Offset	Name	Type	Dim	R \ W	Description
0x00002230 (8752)	Threshold CH 1 source selection 1	Float	4	R\W	Threshold for signal
0x00002234 (8756)	Threshold CH 1 source selection 2	Float	4	R\W	Threshold for signal
0x00002238 (8760)	Threshold CH 1 source selection 3	Float	4	R\W	Threshold for signal
0x0000223c (8764)	Threshold CH 1 source selection 4	Float	4	R\W	Threshold for signal

## Thresholds CH 2

Thresholds for signal

Offset	Name	Type	Dim	R \ W	Description
0x00002240 (8768)	Threshold CH 2 source selection 1	Float	4	R\W	Threshold for signal
0x00002244 (8772)	Threshold CH 2 source selection 2	Float	4	R\W	Threshold for signal
0x00002248 (8776)	Threshold CH 2 source selection 3	Float	4	R\W	Threshold for signal
0x0000224c (8780)	Threshold CH 2 source selection 4	Float	4	R\W	Threshold for signal

## Thresholds CH 3

Thresholds for signal

Offset	Name	Type	Dim	R \ W	Description
0x00002250 (8784)	Threshold CH 3 source selection 1	Float	4	R\W	Threshold for signal
0x00002254 (8788)	Threshold CH 3 source selection 2	Float	4	R\W	Threshold for signal
0x00002258 (8792)	Threshold CH 3 source selection 3	Float	4	R\W	Threshold for signal
0x0000225c (8796)	Threshold CH 3 source selection 4	Float	4	R\W	Threshold for signal

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50018 Scandicci, FI, Italy  
T. +39 055 735 0230

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Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Thresholds CH 4

Thresholds for signal

Offset	Name	Type	Dim	R \ W	Description
0x00002260 (8800)	Threshold CH 4 source selection 1	Float	4	R\W	Threshold for signal
0x00002264 (8804)	Threshold CH 4 source selection 2	Float	4	R\W	Threshold for signal
0x00002268 (8808)	Threshold CH 4 source selection 3	Float	4	R\W	Threshold for signal
0x0000226c (8812)	Threshold CH 4 source selection 4	Float	4	R\W	Threshold for signal

## PilotToneEnable

if set to 0 pilot tone is disabled, if set to 1 is enabled

Offset	Name	Type	Dim	R \ W	Description
0x00002270 (8816)	PilotToneEnable CH 1	uint8	1	R\W	if set to 0 pilot tone is disabled, if set to 1 is enabled
0x00002271 (8817)	PilotToneEnable CH 2	uint8	1	R\W	if set to 0 pilot tone is disabled, if set to 1 is enabled
0x00002272 (8818)	PilotToneEnable CH 3	uint8	1	R\W	if set to 0 pilot tone is disabled, if set to 1 is enabled
0x00002273 (8819)	PilotToneEnable CH 4	uint8	1	R\W	if set to 0 pilot tone is disabled, if set to 1 is enabled

## Pilot tone freq

Pilot tone frequency in Hz

Offset	Name	Type	Dim	R \ W	Description
0x00002274 (8820)	Pilot tone freq CH 1	Float	4	R\W	Pilot tone frequency in Hz
0x00002278 (8824)	Pilot tone freq CH 2	Float	4	R\W	Pilot tone frequency in Hz
0x0000227c (8828)	Pilot tone freq CH 3	Float	4	R\W	Pilot tone frequency in Hz
0x00002280 (8832)	Pilot tone freq CH 4	Float	4	R\W	Pilot tone frequency in Hz

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50018 Scandicci, FI, Italy  
T. +39 055 735 0230

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50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Pilot tone high threshold

Pilot tone high threshold in Hz

Offset	Name	Type	Dim	R \ W	Description
0x00002284 (8836)	Pilot tone high threshold CH 1	Float	4	R\W	Pilot tone high threshold in Vrms
0x00002288 (8840)	Pilot tone high threshold CH 2	Float	4	R\W	Pilot tone high threshold in Vrms
0x0000228c (8844)	Pilot tone high threshold CH 3	Float	4	R\W	Pilot tone high threshold in Vrms
0x00002290 (8848)	Pilot tone high threshold CH 4	Float	4	R\W	Pilot tone high threshold in Vrms

## Pilot tone low threshold

Pilot tone low threshold

Offset	Name	Type	Dim	R \ W	Description
0x00002294 (8852)	Pilot tone low threshold CH 1	Float	4	R\W	Pilot tone low threshold in Vrms
0x00002298 (8856)	Pilot tone low threshold CH 2	Float	4	R\W	Pilot tone low threshold in Vrms
0x0000229c (8860)	Pilot tone low threshold CH 3	Float	4	R\W	Pilot tone low threshold in Vrms
0x000022a0 (8864)	Pilot tone low threshold CH 4	Float	4	R\W	Pilot tone low threshold in Vrms

## Pilot tone GPO enable

Enable the ability to trigger the GPO in absence of pilot tone

Offset	Name	Type	Dim	R \ W	Description
0x000022a4 (8868)	Pilot tone GPO enable CH 1	Uint32	4	R\W	If none of the sources on channel 1 has a valid input pilot tone, by setting this field at 1 GPO is triggered.
0x000022a8 (8872)	Pilot tone GPO enable CH 2	Uint32	4	R\W	If none of the sources on channel 2 has a valid input pilot tone, by setting this field at 1 GPO is triggered.
0x000022ac (8876)	Pilot tone GPO enable CH 3	Uint32	4	R\W	If none of the sources on channel 3 has a valid input pilot tone, by setting this field at 1 GPO is triggered.
0x000022b0 (8880)	Pilot tone GPO enable CH 4	Uint32	4	R\W	If none of the sources on channel 4 has a valid input pilot tone, by setting this field at 1 GPO is triggered.

## Minijack Anti-Pop Configuration

This area contains the configurations related to Minijack Anti-Pop.

BlockId	Start Address	End Address	Description
<a href="#">Enable</a>	0x00002500	0x00002504	Parameter to enable or disable Minijack Anti-Pop.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Enable

Parameter to enable or disable Minijack Anti-Pop.

Offset	Name	Type	Dim	R \ W	Description
0x00002500 (9472)	Enable CH 1	UInt8	1	R\W	Set to 1 to enable Minijack Anti-Pop, set to 0 to disable it.
0x00002501 (9473)	Enable CH 2	UInt8	1	R\W	Set to 1 to enable Minijack Anti-Pop, set to 0 to disable it.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

[sales@powersoft.it](mailto:sales@powersoft.it)  
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## Matrix

This area contains informations related to the Matrix.

Offset	Name	Type	Dim	R \ W	Description
0x00003000 (12288)	Type	uint32	4	R\W	Represent the matrix type currently in use
0x00003004 (12292)	Source 1 pre Mute	uint8	1	R\W	Pre mute to be applied to source 1
0x00003005 (12293)	Source 2 pre Mute	uint8	1	R\W	Pre mute to be applied to source 2
0x00003006 (12294)	Source 3 pre Mute	uint8	1	R\W	Pre mute to be applied to source 3
0x00003007 (12295)	Source 4 pre Mute	uint8	1	R\W	Pre mute to be applied to source 4
0x00003008 (12296)	Source 1 pre Gain	Float	4	R\W	Pre Gain to be applied to source 1
0x0000300c (12300)	Source 2 pre Gain	Float	4	R\W	Pre Gain to be applied to source 2
0x00003010 (12304)	Source 3 pre Gain	Float	4	R\W	Pre Gain to be applied to source 3
0x00003014 (12308)	Source 4 pre Gain	Float	4	R\W	Pre Gain to be applied to source 4
0x00003018 (12312)	Source 1 Gain 1	Float	4	R\W	Linear Gain related to output 1 for the Source 1
0x0000301c (12316)	Source 1 Gain 2	Float	4	R\W	Linear Gain related to output 2 for the Source 1
0x00003020 (12320)	Source 1 Gain 3	Float	4	R\W	Linear Gain related to output 3 for the Source 1
0x00003024 (12324)	Source 1 Gain 4	Float	4	R\W	Linear Gain related to output 4 for the Source 1
0x00003028 (12328)	Source 2 Gain 1	Float	4	R\W	Linear Gain related to output 1 for the Source 2
0x0000302c (12332)	Source 2 Gain 2	Float	4	R\W	Linear Gain related to output 2 for the Source 2
0x00003030 (12336)	Source 2 Gain 3	Float	4	R\W	Linear Gain related to output 3 for the Source 2
0x00003034 (12340)	Source 2 Gain 4	Float	4	R\W	Linear Gain related to output 4 for the Source 2
0x00003038 (12344)	Source 3 Gain 1	Float	4	R\W	Linear Gain related to output 1 for the Source 3
0x0000303c (12348)	Source 3 Gain 2	Float	4	R\W	Linear Gain related to output 2 for the Source 3
0x00003040 (12352)	Source 3 Gain 3	Float	4	R\W	Linear Gain related to output 3 for the Source 3
0x00003044 (12356)	Source 3 Gain 4	Float	4	R\W	Linear Gain related to output 4 for the Source 3
0x00003048 (12360)	Source 4 Gain 1	Float	4	R\W	Linear Gain related to output 1 for the Source 4
0x0000304c (12364)	Source 4 Gain 2	Float	4	R\W	Linear Gain related to output 2 for the Source 4
0x00003050 (12368)	Source 4 Gain 3	Float	4	R\W	Linear Gain related to output 3 for the Source 4
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0x00003054 (12372)	Source 4 Gain 4	Float	4	RW	Linear Gain related to output 4 for the Source 4
0x00003058 (12376)	Source 1 Mute 1	uint8	1	RW	Mute to be applied to source 1
0x00003059 (12377)	Source 1 Mute 2	uint8	1	RW	Mute to be applied to source 2
0x0000305a (12378)	Source 1 Mute 3	uint8	1	RW	Mute to be applied to source 3
0x0000305b (12379)	Source 1 Mute 4	uint8	1	RW	Mute to be applied to source 4
0x0000305c (12380)	Source 2 Mute 1	uint8	1	RW	Mute to be applied to source 1
0x0000305d (12381)	Source 2 Mute 2	uint8	1	RW	Mute to be applied to source 2
0x0000305e (12382)	Source 2 Mute 3	uint8	1	RW	Mute to be applied to source 3
0x0000305f (12383)	Source 2 Mute 4	uint8	1	RW	Mute to be applied to source 4
0x00003060 (12384)	Source 3 Mute 1	uint8	1	RW	Mute to be applied to source 1
0x00003061 (12385)	Source 3 Mute 2	uint8	1	RW	Mute to be applied to source 2
0x00003062 (12386)	Source 3 Mute 3	uint8	1	RW	Mute to be applied to source 3
0x00003063 (12387)	Source 3 Mute 4	uint8	1	RW	Mute to be applied to source 4
0x00003064 (12388)	Source 4 Mute 1	uint8	1	RW	Mute to be applied to source 1
0x00003065 (12389)	Source 4 Mute 2	uint8	1	RW	Mute to be applied to source 2
0x00003066 (12390)	Source 4 Mute 3	uint8	1	RW	Mute to be applied to source 3
0x00003067 (12391)	Source 4 Mute 4	uint8	1	RW	Mute to be applied to source 4

## User

This area contains informations related to the User block.

BlockId	Start Address	End Address	Description
<a href="#">User Common Settings</a>	0x00004000	0x00004038	This area contains the user block common settings
<a href="#">User EQ</a>	0x00004100	0x00004280	This area contains the user block common settings

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## User Common Settings

This area contains the user block common settings

BlockId	Start Address	End Address	Description
<a href="#">User Gain</a>	0x00004000	0x00004010	The user gain in linear
<a href="#">User Delay</a>	0x00004010	0x00004020	The delay shading in seconds
<a href="#">User Polarity</a>	0x00004020	0x00004024	The user polarity
<a href="#">User Mute</a>	0x00004024	0x00004028	The mute shading
<a href="#">User Shading</a>	0x00004028	0x00004038	The user shading

## User Gain

The user gain in linear

Offset	Name	Type	Dim	R \ W	Description
0x00004000 (16384)	User Gain 1	Float	4	R\W	The user gain in linear CH 1
0x00004004 (16388)	User Gain 2	Float	4	R\W	The user gain in linear CH 2
0x00004008 (16392)	User Gain 3	Float	4	R\W	The user gain in linear CH 3
0x0000400c (16396)	User Gain 4	Float	4	R\W	The user gain in linear CH 4

## User Delay

The delay shading in seconds

Offset	Name	Type	Dim	R \ W	Description
0x00004010 (16400)	User Delay 1	Float	4	R\W	The user delay in seconds CH 1
0x00004014 (16404)	User Delay 2	Float	4	R\W	The user delay in seconds CH 2
0x00004018 (16408)	User Delay 3	Float	4	R\W	The user delay in seconds CH 3
0x0000401c (16412)	User Delay 4	Float	4	R\W	The user delay in seconds CH 4

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50018 Scandicci, FI, Italy  
T. +39 055 735 0230

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Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## User Polarity

The user polarity

Offset	Name	Type	Dim	R \ W	Description
0x00004020 (16416)	User Polarity 1	uint8	1	R\W	The user polarity CH 1
0x00004021 (16417)	User Polarity 2	uint8	1	R\W	The user polarity CH 2
0x00004022 (16418)	User Polarity 3	uint8	1	R\W	The user polarity CH 3
0x00004023 (16419)	User Polarity 4	uint8	1	R\W	The user polarity CH 4

## User Mute

The mute shading

Offset	Name	Type	Dim	R \ W	Description
0x00004024 (16420)	User Mute 1	uint8	1	R\W	The user mute CH 1
0x00004025 (16421)	User Mute 2	uint8	1	R\W	The user mute CH 2
0x00004026 (16422)	User Mute 3	uint8	1	R\W	The user mute CH 3
0x00004027 (16423)	User Mute 4	uint8	1	R\W	The user mute CH 4

## User Shading

The user shading

Offset	Name	Type	Dim	R \ W	Description
0x00004028 (16424)	User Shading 1	Float	4	R\W	The user shading CH 1
0x0000402c (16428)	User Shading 2	Float	4	R\W	The user shading CH 2
0x00004030 (16432)	User Shading 3	Float	4	R\W	The user shading CH 3
0x00004034 (16436)	User Shading 4	Float	4	R\W	The user shading CH 4

## User EQ

This area contains the user block common settings

BlockId	Start Address	End Address	Description
<a href="#">User EQ Channel 1</a>	0x00004100	0x00004160	This area contains the user block EQ settings
<a href="#">User EQ Channel 2</a>	0x00004160	0x000041c0	This area contains the user block EQ settings
<a href="#">User EQ Channel 3</a>	0x000041c0	0x00004220	This area contains the user block EQ settings
<a href="#">User EQ Channel 4</a>	0x00004220	0x00004280	This area contains the user block EQ settings

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

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Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## User EQ Channel 1

This area contains the user block EQ settings

BlockId	Start Address	End Address	Description
<a href="#">User Eq Channel 1 BiQuad 1 settings</a>	0x00004100	0x00004118	This area contains the user equalizer biQuad settings.
<a href="#">User Eq Channel 1 BiQuad 2 settings</a>	0x00004118	0x00004130	This area contains the user equalizer biQuad settings.
<a href="#">User Eq Channel 1 BiQuad 3 settings</a>	0x00004130	0x00004148	This area contains the user equalizer biQuad settings.
<a href="#">User Eq Channel 1 BiQuad 4 settings</a>	0x00004148	0x00004160	This area contains the user equalizer biQuad settings.

## User Eq Channel 1 BiQuad 1 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x00004100 (16640)	Enabled	uint32	4	R\W	The enable flag																		
0x00004104 (16644)	Type	uint32	4	R\W	<div>The filter type. Valid values are:<table><thead><tr><th>Values</th><th>Type</th></tr></thead><tbody><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></tbody></table></div>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
Values	Type																						
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12	High-Shelving																						
13	Low-pass																						
14	High-pass																						
15	BandPass																						
16	Band-stop																						
17	All-pass																						
0x00004108 (16648)	Q	Float	4	R\W	The filter Q																		
0x0000410c (16652)	Slope	Float	4	R\W	The filter Slope																		
0x00004110 (16656)	Frequency	uint32	4	R\W	The filter frequency																		
0x00004114 (16660)	Gain	Float	4	R\W	The linear gain																		

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## User Eq Channel 1 BiQuad 2 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x00004118 (16664)	Enabled	uint32	4	R\W	The enable flag																		
0x0000411c (16668)	Type	uint32	4	R\W	The filter type. Valid values are: <table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					14	High-pass																	
					15	BandPass																	
					16	Band-stop																	
17	All-pass																						
0x00004120 (16672)	Q	Float	4	R\W	The filter Q																		
0x00004124 (16676)	Slope	Float	4	R\W	The filter Slope																		
0x00004128 (16680)	Frequency	uint32	4	R\W	The filter frequency																		
0x0000412c (16684)	Gain	Float	4	R\W	The linear gain																		

## User Eq Channel 1 BiQuad 3 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x00004130 (16688)	Enabled	uint32	4	R\W	The enable flag																		
0x00004134 (16692)	Type	uint32	4	R\W	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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16	Band-stop																						
17	All-pass																						
0x00004138 (16696)	Q	Float	4	R\W	The filter Q																		
0x0000413c (16700)	Slope	Float	4	R\W	The filter Slope																		
0x00004140 (16704)	Frequency	uint32	4	R\W	The filter frequency																		
0x00004144 (16708)	Gain	Float	4	R\W	The linear gain																		

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50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
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## User Eq Channel 1 BiQuad 4 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x00004148 (16712)	Enabled	uint32	4	R\W	The enable flag																		
0x0000414c (16716)	Type	uint32	4	R\W	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					14	High-pass																	
					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x00004150 (16720)	Q	Float	4	R\W	The filter Q																		
0x00004154 (16724)	Slope	Float	4	R\W	The filter Slope																		
0x00004158 (16728)	Frequency	uint32	4	R\W	The filter frequency																		
0x0000415c (16732)	Gain	Float	4	R\W	The linear gain																		

## User EQ Channel 2

This area contains the user block EQ settings

BlockId	Start Address	End Address	Description
<a href="#">User Eq Channel 2 BiQuad 1 settings</a>	0x00004160	0x00004178	This area contains the user equalizer biQuad settings.
<a href="#">User Eq Channel 2 BiQuad 2 settings</a>	0x00004178	0x00004190	This area contains the user equalizer biQuad settings.
<a href="#">User Eq Channel 2 BiQuad 3 settings</a>	0x00004190	0x000041a8	This area contains the user equalizer biQuad settings.
<a href="#">User Eq Channel 2 BiQuad 4 settings</a>	0x000041a8	0x000041c0	This area contains the user equalizer biQuad settings.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## User Eq Channel 2 BiQuad 1 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x00004160 (16736)	Enabled	uint32	4	R\W	The enable flag																		
0x00004164 (16740)	Type	uint32	4	R\W	The filter type. Valid values are: <table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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17	All-pass																						
0x00004168 (16744)	Q	Float	4	R\W	The filter Q																		
0x0000416c (16748)	Slope	Float	4	R\W	The filter Slope																		
0x00004170 (16752)	Frequency	uint32	4	R\W	The filter frequency																		
0x00004174 (16756)	Gain	Float	4	R\W	The linear gain																		

## User Eq Channel 2 BiQuad 2 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x00004178 (16760)	Enabled	uint32	4	R\W	The enable flag																		
0x0000417c (16764)	Type	uint32	4	R\W	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x00004180 (16768)	Q	Float	4	R\W	The filter Q																		
0x00004184 (16772)	Slope	Float	4	R\W	The filter Slope																		
0x00004188 (16776)	Frequency	uint32	4	R\W	The filter frequency																		
0x0000418c (16780)	Gain	Float	4	R\W	The linear gain																		

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## User Eq Channel 2 BiQuad 3 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x00004190 (16784)	Enabled	uint32	4	R\W	The enable flag																		
0x00004194 (16788)	Type	uint32	4	R\W	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					14	High-pass																	
					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x00004198 (16792)	Q	Float	4	R\W	The filter Q																		
0x0000419c (16796)	Slope	Float	4	R\W	The filter Slope																		
0x000041a0 (16800)	Frequency	uint32	4	R\W	The filter frequency																		
0x000041a4 (16804)	Gain	Float	4	R\W	The linear gain																		

## User Eq Channel 2 BiQuad 4 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																			
0x000041a8 (16808)	Enabled	uint32	4	R\W	The enable flag																			
0x000041ac (16812)	Type	uint32	4	R\W	The filter type. Valid values are:																			
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>		Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					15	BandPass																		
16	Band-stop																							
17	All-pass																							
0x000041b0 (16816)	Q	Float	4	R\W	The filter Q																			
0x000041b4 (16820)	Slope	Float	4	R\W	The filter Slope																			
0x000041b8 (16824)	Frequency	uint32	4	R\W	The filter frequency																			
0x000041bc (16828)	Gain	Float	4	R\W	The linear gain																			

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## User EQ Channel 3

This area contains the user block EQ settings

BlockId	Start Address	End Address	Description
<a href="#">User Eq Channel 3 BiQuad 1 settings</a>	0x000041c0	0x000041d8	This area contains the user equalizer biQuad settings.
<a href="#">User Eq Channel 3 BiQuad 2 settings</a>	0x000041d8	0x000041f0	This area contains the user equalizer biQuad settings.
<a href="#">User Eq Channel 3 BiQuad 3 settings</a>	0x000041f0	0x00004208	This area contains the user equalizer biQuad settings.
<a href="#">User Eq Channel 3 BiQuad 4 settings</a>	0x00004208	0x00004220	This area contains the user equalizer biQuad settings.

## User Eq Channel 3 BiQuad 1 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x000041c0 (16832)	Enabled	uint32	4	R\W	The enable flag																		
0x000041c4 (16836)	Type	uint32	4	R\W	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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16	Band-stop																						
17	All-pass																						
0x000041c8 (16840)	Q	Float	4	R\W	The filter Q																		
0x000041cc (16844)	Slope	Float	4	R\W	The filter Slope																		
0x000041d0 (16848)	Frequency	uint32	4	R\W	The filter frequency																		
0x000041d4 (16852)	Gain	Float	4	R\W	The linear gain																		

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## User Eq Channel 3 BiQuad 2 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x000041d8 (16856)	Enabled	uint32	4	R\W	The enable flag																		
0x000041dc (16860)	Type	uint32	4	R\W	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					14	High-pass																	
					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x000041e0 (16864)	Q	Float	4	R\W	The filter Q																		
0x000041e4 (16868)	Slope	Float	4	R\W	The filter Slope																		
0x000041e8 (16872)	Frequency	uint32	4	R\W	The filter frequency																		
0x000041ec (16876)	Gain	Float	4	R\W	The linear gain																		

## User Eq Channel 3 BiQuad 3 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x000041f0 (16880)	Enabled	uint32	4	R\W	The enable flag																		
0x000041f4 (16884)	Type	uint32	4	R\W	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					14	High-pass																	
					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x000041f8 (16888)	Q	Float	4	R\W	The filter Q																		
0x000041fc (16892)	Slope	Float	4	R\W	The filter Slope																		
0x00004200 (16896)	Frequency	uint32	4	R\W	The filter frequency																		
0x00004204 (16900)	Gain	Float	4	R\W	The linear gain																		

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## User Eq Channel 3 BiQuad 4 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x00004208 (16904)	Enabled	uint32	4	R\W	The enable flag																		
0x0000420c (16908)	Type	uint32	4	R\W	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					13	Low-pass																	
					14	High-pass																	
					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x00004210 (16912)	Q	Float	4	R\W	The filter Q																		
0x00004214 (16916)	Slope	Float	4	R\W	The filter Slope																		
0x00004218 (16920)	Frequency	uint32	4	R\W	The filter frequency																		
0x0000421c (16924)	Gain	Float	4	R\W	The linear gain																		

## User EQ Channel 4

This area contains the user block EQ settings

BlockId	Start Address	End Address	Description
<a href="#">User Eq Channel 4 BiQuad 1 settings</a>	0x00004220	0x00004238	This area contains the user equalizer biQuad settings.
<a href="#">User Eq Channel 4 BiQuad 2 settings</a>	0x00004238	0x00004250	This area contains the user equalizer biQuad settings.
<a href="#">User Eq Channel 4 BiQuad 3 settings</a>	0x00004250	0x00004268	This area contains the user equalizer biQuad settings.
<a href="#">User Eq Channel 4 BiQuad 4 settings</a>	0x00004268	0x00004280	This area contains the user equalizer biQuad settings.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## User Eq Channel 4 BiQuad 1 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x00004220 (16928)	Enabled	uint32	4	R\W	The enable flag																		
0x00004224 (16932)	Type	uint32	4	R\W	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x00004228 (16936)	Q	Float	4	R\W	The filter Q																		
0x0000422c (16940)	Slope	Float	4	R\W	The filter Slope																		
0x00004230 (16944)	Frequency	uint32	4	R\W	The filter frequency																		
0x00004234 (16948)	Gain	Float	4	R\W	The linear gain																		

## User Eq Channel 4 BiQuad 2 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x00004238 (16952)	Enabled	uint32	4	R\W	The enable flag																		
0x0000423c (16956)	Type	uint32	4	R\W	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					14	High-pass																	
					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x00004240 (16960)	Q	Float	4	R\W	The filter Q																		
0x00004244 (16964)	Slope	Float	4	R\W	The filter Slope																		
0x00004248 (16968)	Frequency	uint32	4	R\W	The filter frequency																		
0x0000424c (16972)	Gain	Float	4	R\W	The linear gain																		

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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powersoft-audio.com

## User Eq Channel 4 BiQuad 3 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x00004250 (16976)	Enabled	uint32	4	R\W	The enable flag																		
0x00004254 (16980)	Type	uint32	4	R\W	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x00004258 (16984)	Q	Float	4	R\W	The filter Q																		
0x0000425c (16988)	Slope	Float	4	R\W	The filter Slope																		
0x00004260 (16992)	Frequency	uint32	4	R\W	The filter frequency																		
0x00004264 (16996)	Gain	Float	4	R\W	The linear gain																		

## User Eq Channel 4 BiQuad 4 settings

This area contains the user equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x00004268 (17000)	Enabled	uint32	4	R\W	The enable flag																		
0x0000426c (17004)	Type	uint32	4	R\W	<div>The filter type. Valid values are:<table><thead><tr><th>Values</th><th>Type</th></tr></thead><tbody><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></tbody></table></div>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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0	Peaking																						
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13	Low-pass																						
14	High-pass																						
15	BandPass																						
16	Band-stop																						
17	All-pass																						
0x00004270 (17008)	Q	Float	4	R\W	The filter Q																		
0x00004274 (17012)	Slope	Float	4	R\W	The filter Slope																		
0x00004278 (17016)	Frequency	uint32	4	R\W	The filter frequency																		
0x0000427c (17020)	Gain	Float	4	R\W	The linear gain																		

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50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
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## Speaker Layout

This area contains informations related to the output routing.

BlockId	Start Address	End Address	Description
<a href="#">Routing Configuration</a>	0x00005000	0x00005004	This area contains informations related to the output routing.
<a href="#">Speaker Settings</a>	0x00005004	0x000062f4	This area contains informations related to the output routing.

## Routing Configuration

This area contains informations related to the output routing.

Offset	Name	Type	Dim	R \ W	Description
0x00005000 (20480)	Routing	uint8[4]	4	R\W	byte[4] [0,1,2,3] -> means 4 different speakers (66051 uint)

## Speaker Settings

This area contains informations related to the output routing.

BlockId	Start Address	End Address	Description
<a href="#">Speaker Description</a>	0x00005004	0x00005644	Speaker Description
<a href="#">Brand Name</a>	0x00005644	0x000057d4	Brand name
<a href="#">Family Name</a>	0x000057d4	0x00005964	Family Name
<a href="#">Model Name</a>	0x00005964	0x00005af4	Model Name
<a href="#">Application Name</a>	0x00005af4	0x00005c84	Application Name
<a href="#">Speaker Note</a>	0x00005c84	0x000062c4	Speaker Note
<a href="#">Speaker Type</a>	0x000062c4	0x000062d4	Speaker Type
<a href="#">Preset Type</a>	0x000062d4	0x000062e4	Preset Type
<a href="#">Is HiZ Active</a>	0x000062e4	0x000062f4	Is HiZ Active

## Speaker Description

Speaker Description

Offset	Name	Type	Dim	R \ W	Description
0x00005004 (20484)	Speaker Description Speaker 1	char[400]	400	R\W	Speaker Description for speaker 1
0x00005194 (20884)	Speaker Description Speaker 2	char[400]	400	R\W	Speaker Description for speaker 2
0x00005324 (21284)	Speaker Description Speaker 3	char[400]	400	R\W	Speaker Description for speaker 3
0x000054b4 (21684)	Speaker Description Speaker 4	char[400]	400	R\W	Speaker Description for speaker 4

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50018 Scandicci, FI, Italy  
T. +39 055 735 0230

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50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Brand Name

Brand name

Offset	Name	Type	Dim	R \ W	Description
0x00005644 (22084)	Brand Name Speaker 1	char[100]	100	R\W	Brand name for speaker 1
0x000056a8 (22184)	Brand Name Speaker 2	char[100]	100	R\W	Brand name for speaker 2
0x0000570c (22284)	Brand Name Speaker 3	char[100]	100	R\W	Brand name for speaker 3
0x00005770 (22384)	Brand Name Speaker 4	char[100]	100	R\W	Brand name for speaker 4

## Family Name

Family Name

Offset	Name	Type	Dim	R \ W	Description
0x000057d4 (22484)	Family Name Speaker 1	char[100]	100	R\W	Family name for speaker 1
0x00005838 (22584)	Family Name Speaker 2	char[100]	100	R\W	Family name for speaker 2
0x0000589c (22684)	Family Name Speaker 3	char[100]	100	R\W	Family name for speaker 3
0x00005900 (22784)	Family Name Speaker 4	char[100]	100	R\W	Family name for speaker 4

## Model Name

Model Name

Offset	Name	Type	Dim	R \ W	Description
0x00005964 (22884)	Model Name Speaker 1	char[100]	100	R\W	Model Name for speaker 1
0x000059c8 (22984)	Model Name Speaker 2	char[100]	100	R\W	Model Name for speaker 2
0x00005a2c (23084)	Model Name Speaker 3	char[100]	100	R\W	Model Name for speaker 3
0x00005a90 (23184)	Model Name Speaker 4	char[100]	100	R\W	Model Name for speaker 4

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50018 Scandicci, FI, Italy  
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Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Application Name

Application Name

Offset	Name	Type	Dim	R \ W	Description
0x00005af4 (23284)	Application Name Speaker 1	char[100]	100	R\W	Application Name for speaker 1
0x00005b58 (23384)	Application Name Speaker 2	char[100]	100	R\W	Application Name for speaker 2
0x00005bbc (23484)	Application Name Speaker 3	char[100]	100	R\W	Application Name for speaker 3
0x00005c20 (23584)	Application Name Speaker 4	char[100]	100	R\W	Application Name for speaker 4

## Speaker Note

Speaker Note

Offset	Name	Type	Dim	R \ W	Description
0x00005c84 (23684)	Speaker Note Speaker 1	char[400]	400	R\W	Speaker Note for speaker 1
0x00005e14 (24084)	Speaker Note Speaker 2	char[400]	400	R\W	Speaker Note for speaker 2
0x00005fa4 (24484)	Speaker Note Speaker 3	char[400]	400	R\W	Speaker Note for speaker 3
0x00006134 (24884)	Speaker Note Speaker 4	char[400]	400	R\W	Speaker Note for speaker 4

## Speaker Type

Speaker Type

Offset	Name	Type	Dim	R \ W	Description
0x000062c4 (25284)	Speaker Type Speaker 1	int32	4	R\W	Speaker Type for speaker 1
0x000062c8 (25288)	Speaker Type Speaker 2	int32	4	R\W	Speaker Type for speaker 2
0x000062cc (25292)	Speaker Type Speaker 3	int32	4	R\W	Speaker Type for speaker 3
0x000062d0 (25296)	Speaker Type Speaker 4	int32	4	R\W	Speaker Type for speaker 4

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50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Preset Type

Preset Type

Offset	Name	Type	Dim	R \ W	Description
0x000062d4 (25300)	Preset Type Speaker 1	int32	4	R\W	Preset Type for speaker 1
0x000062d8 (25304)	Preset Type Speaker 2	int32	4	R\W	Preset Type for speaker 2
0x000062dc (25308)	Preset Type Speaker 3	int32	4	R\W	Preset Type for speaker 3
0x000062e0 (25312)	Preset Type Speaker 4	int32	4	R\W	Preset Type for speaker 4

## Is HiZ Active

Is HiZ Active

Offset	Name	Type	Dim	R \ W	Description
0x000062e4 (25316)	Is HiZ Active Speaker 1	uint32	4	R\W	Is HiZ Active for speaker 1
0x000062e8 (25320)	Is HiZ Active Speaker 2	uint32	4	R\W	Is HiZ Active for speaker 2
0x000062ec (25324)	Is HiZ Active Speaker 3	uint32	4	R\W	Is HiZ Active for speaker 3
0x000062f0 (25328)	Is HiZ Active Speaker 4	uint32	4	R\W	Is HiZ Active for speaker 4

## Ways

This area contains informations related to the amplifiers ways.

BlockId	Start Address	End Address	Description
<a href="#">Way Common settings</a>	0x00007000	0x000070a0	This area contains the way common settings.
<a href="#">Diagnostic</a>	0x00007890	0x00007940	Ways Diagnostic area
<a href="#">Auto Setup Apply</a>	0x00007940	0x00007950	Ways autoseup applied parameters area

## Way Common settings

This area contains the way common settings.

BlockId	Start Address	End Address	Description
<a href="#">Is Autosetupable</a>	0x00007000	0x00007010	This is the out autsetup capable of way - 1 if Autosetupable - else 0
<a href="#">Way gain</a>	0x00007010	0x00007020	The way gain in linear
<a href="#">Way delay</a>	0x00007020	0x00007030	The way delay in seconds
<a href="#">Way polarity</a>	0x00007030	0x00007040	The way polarity
<a href="#">Way mute</a>	0x00007040	0x00007050	The way mute
<a href="#">Way Name</a>	0x00007050	0x00007090	Way Name
<a href="#">Way State</a>	0x00007090	0x000070a0	Way State

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50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Is Autotsetupable

This is the out autsetup capable of way - 1 if Autotsetupable - else 0

Offset	Name	Type	Dim	R \ W	Description
0x00007000 (28672)	Way 1 Is Autotsetupable	uint32	4	R\W	This is the out autsetup capable of way - 1 if Autotsetupable - else 0
0x00007004 (28676)	Way 2 Is Autotsetupable	uint32	4	R\W	This is the out autsetup capable of way - 1 if Autotsetupable - else 0
0x00007008 (28680)	Way 3 Is Autotsetupable	uint32	4	R\W	This is the out autsetup capable of way - 1 if Autotsetupable - else 0
0x0000700c (28684)	Way 4 Is Autotsetupable	uint32	4	R\W	This is the out autsetup capable of way - 1 if Autotsetupable - else 0

## Way gain

The way gain in linear

Offset	Name	Type	Dim	R \ W	Description
0x00007010 (28688)	Way 1 gain	Float	4	R\W	The way gain in linear
0x00007014 (28692)	Way 2 gain	Float	4	R\W	The way gain in linear
0x00007018 (28696)	Way 3 gain	Float	4	R\W	The way gain in linear
0x0000701c (28700)	Way 4 gain	Float	4	R\W	The way gain in linear

## Way delay

The way delay in seconds

Offset	Name	Type	Dim	R \ W	Description
0x00007020 (28704)	Way 1 delay	Float	4	R\W	The way delay in seconds
0x00007024 (28708)	Way 2 delay	Float	4	R\W	The way delay in seconds
0x00007028 (28712)	Way 3 delay	Float	4	R\W	The way delay in seconds
0x0000702c (28716)	Way 4 delay	Float	4	R\W	The way delay in seconds

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Way polarity

The way polarity

Offset	Name	Type	Dim	R \ W	Description
0x00007030 (28720)	Way 1 polarity	uint32	4	R\W	The way polarity
0x00007034 (28724)	Way 2 polarity	uint32	4	R\W	The way polarity
0x00007038 (28728)	Way 3 polarity	uint32	4	R\W	The way polarity
0x0000703c (28732)	Way 4 polarity	uint32	4	R\W	The way polarity

## Way mute

The way mute

Offset	Name	Type	Dim	R \ W	Description
0x00007040 (28736)	Way 1 mute	uint32	4	R\W	The way mute
0x00007044 (28740)	Way 2 mute	uint32	4	R\W	The way mute
0x00007048 (28744)	Way 3 mute	uint32	4	R\W	The way mute
0x0000704c (28748)	Way 4 mute	uint32	4	R\W	The way mute

## Way Name

Way Name

Offset	Name	Type	Dim	R \ W	Description
0x00007050 (28752)	Way Name Way 1	char[16]	16	R\W	Way Name for way 1
0x00007060 (28768)	Way Name Way 2	char[16]	16	R\W	Way Name for way 2
0x00007070 (28784)	Way Name Way 3	char[16]	16	R\W	Way Name for way 3
0x00007080 (28800)	Way Name Way 4	char[16]	16	R\W	Way Name for way 4

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Way State

Way State

Offset	Name	Type	Dim	R \ W	Description
0x00007090 (28816)	Way State Way 1	uint32	4	R\W	Way State for way 1
0x00007094 (28820)	Way State Way 2	uint32	4	R\W	Way State for way 2
0x00007098 (28824)	Way State Way 3	uint32	4	R\W	Way State for way 3
0x0000709c (28828)	Way State Way 4	uint32	4	R\W	Way State for way 4

## Diagnostic

Ways Diagnostic area

BlockId	Start Address	End Address	Description
<a href="#">Diagnostic Pilot Tone Generator</a>	0x00007890	0x000078b4	Pilot Tone Generator area
<a href="#">Diagnostic Pilot Tone</a>	0x000078b4	0x000078e8	Pilot Tone area
<a href="#">Diagnostic Load Monitor</a>	0x000078e8	0x0000791c	Load Monitor area

## Diagnostic Pilot Tone Generator

Pilot Tone Generator area

BlockId	Start Address	End Address	Description
<a href="#">Way Pilot Tone Generator Enable</a>	0x00007890	0x00007894	Pilot Tone Generator Enable for way
<a href="#">Way Pilot Tone Generator Frequency</a>	0x00007894	0x000078a4	Pilot Tone Generator Frequency for way
<a href="#">Way Pilot Tone Generator Amplitude</a>	0x000078a4	0x000078b4	Pilot Tone Generator Amplitude for way

## Way Pilot Tone Generator Enable

Pilot Tone Generator Enable for way

Offset	Name	Type	Dim	R \ W	Description
0x00007890 (30864)	Way 1 Pilot Tone Generator Enable	uint8	1	R\W	Pilot Tone Generator Enable for way 1
0x00007891 (30865)	Way 2 Pilot Tone Generator Enable	uint8	1	R\W	Pilot Tone Generator Enable for way 2
0x00007892 (30866)	Way 3 Pilot Tone Generator Enable	uint8	1	R\W	Pilot Tone Generator Enable for way 3
0x00007893 (30867)	Way 4 Pilot Tone Generator Enable	uint8	1	R\W	Pilot Tone Generator Enable for way 4

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Way Pilot Tone Generator Frequency

Pilot Tone Generator Frequency for way

Offset	Name	Type	Dim	R \ W	Description
0x00007894 (30868)	Way 1 Pilot Tone Generator Frequency	Float	4	RW	Pilot Tone Generator Frequency for way 1. Frequency may be rounded to closest integer in order to enhance performances.
0x00007898 (30872)	Way 2 Pilot Tone Generator Frequency	Float	4	RW	Pilot Tone Generator Frequency for way 2. Frequency may be rounded to closest integer in order to enhance performances.
0x0000789c (30876)	Way 3 Pilot Tone Generator Frequency	Float	4	RW	Pilot Tone Generator Frequency for way 3. Frequency may be rounded to closest integer in order to enhance performances.
0x000078a0 (30880)	Way 4 Pilot Tone Generator Frequency	Float	4	RW	Pilot Tone Generator Frequency for way 4. Frequency may be rounded to closest integer in order to enhance performances.

## Way Pilot Tone Generator Amplitude

Pilot Tone Generator Amplitude for way

Offset	Name	Type	Dim	R \ W	Description
0x000078a4 (30884)	Way 1 Pilot Tone Generator Amplitude	Float	4	RW	Pilot Tone Generator Amplitude for way 1
0x000078a8 (30888)	Way 2 Pilot Tone Generator Amplitude	Float	4	RW	Pilot Tone Generator Amplitude for way 2
0x000078ac (30892)	Way 3 Pilot Tone Generator Amplitude	Float	4	RW	Pilot Tone Generator Amplitude for way 3
0x000078b0 (30896)	Way 4 Pilot Tone Generator Amplitude	Float	4	RW	Pilot Tone Generator Amplitude for way 4

## Diagnostic Pilot Tone

Pilot Tone area

BlockId	Start Address	End Address	Description
<a href="#">Way Pilot Tone Enable</a>	0x000078b4	0x000078b8	Pilot Tone area
<a href="#">Way Pilot Tone Frequency</a>	0x000078b8	0x000078c8	Pilot Tone Frequency for way
<a href="#">Way Pilot Tone Lowth</a>	0x000078c8	0x000078d8	Pilot Tone Lowth for way
<a href="#">Way Pilot Tone Highth</a>	0x000078d8	0x000078e8	Pilot Tone Highth for way

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

[sales@powersoft.it](mailto:sales@powersoft.it)  
[powersoft-audio.com](http://powersoft-audio.com)

## Way Pilot Tone Enable

Pilot Tone area

Offset	Name	Type	Dim	R \ W	Description
0x000078b4 (30900)	Way 1 Pilot Tone Enable	uint8	1	R\W	Pilot Tone Enable for way 1
0x000078b5 (30901)	Way 2 Pilot Tone Enable	uint8	1	R\W	Pilot Tone Enable for way 2
0x000078b6 (30902)	Way 3 Pilot Tone Enable	uint8	1	R\W	Pilot Tone Enable for way 3
0x000078b7 (30903)	Way 4 Pilot Tone Enable	uint8	1	R\W	Pilot Tone Enable for way 4

## Way Pilot Tone Frequency

Pilot Tone Frequency for way

Offset	Name	Type	Dim	R \ W	Description
0x000078b8 (30904)	Way 1 Pilot Tone Frequency	Float	4	R\W	Pilot Tone Frequency for way 1. Frequency may be rounded to closest integer in order to enhance performances.
0x000078bc (30908)	Way 2 Pilot Tone Frequency	Float	4	R\W	Pilot Tone Frequency for way 2. Frequency may be rounded to closest integer in order to enhance performances.
0x000078c0 (30912)	Way 3 Pilot Tone Frequency	Float	4	R\W	Pilot Tone Frequency for way 3. Frequency may be rounded to closest integer in order to enhance performances.
0x000078c4 (30916)	Way 4 Pilot Tone Frequency	Float	4	R\W	Pilot Tone Frequency for way 4. Frequency may be rounded to closest integer in order to enhance performances.

## Way Pilot Tone Lowth

Pilot Tone Lowth for way

Offset	Name	Type	Dim	R \ W	Description
0x000078c8 (30920)	Way 1 Pilot Tone Lowth	Float	4	R\W	Pilot Tone Lowth for way 1
0x000078cc (30924)	Way 2 Pilot Tone Lowth	Float	4	R\W	Pilot Tone Lowth for way 2
0x000078d0 (30928)	Way 3 Pilot Tone Lowth	Float	4	R\W	Pilot Tone Lowth for way 3
0x000078d4 (30932)	Way 4 Pilot Tone Lowth	Float	4	R\W	Pilot Tone Lowth for way 4

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Way Pilot Tone Highth

Pilot Tone Highth for way

Offset	Name	Type	Dim	R \ W	Description
0x000078d8 (30936)	Way 1 Pilot Tone Highth	Float	4	R\W	Pilot Tone Highth for way 1
0x000078dc (30940)	Way 2 Pilot Tone Highth	Float	4	R\W	Pilot Tone Highth for way 2
0x000078e0 (30944)	Way 3 Pilot Tone Highth	Float	4	R\W	Pilot Tone Highth for way 3
0x000078e4 (30948)	Way 4 Pilot Tone Highth	Float	4	R\W	Pilot Tone Highth for way 4

## Diagnostic Load Monitor

Load Monitor area

BlockId	Start Address	End Address	Description
<a href="#">Way Load Monitor Enable</a>	0x000078e8	0x000078ec	Load Monitor Enable for way
<a href="#">Way Load Monitor Frequency</a>	0x000078ec	0x000078fc	Load Monitor Frequency for way
<a href="#">Way Load Monitor Lowth</a>	0x000078fc	0x0000790c	Load Monitor Lowth for way
<a href="#">Way Load Monitor Highth</a>	0x0000790c	0x0000791c	Load Monitor Highth for way

## Way Load Monitor Enable

Load Monitor Enable for way

Offset	Name	Type	Dim	R \ W	Description
0x000078e8 (30952)	Way Load Monitor Enable Way 1	uint8	1	R\W	Load Monitor Enable for way 1
0x000078e9 (30953)	Way Load Monitor Enable Way 2	uint8	1	R\W	Load Monitor Enable for way 2
0x000078ea (30954)	Way Load Monitor Enable Way 3	uint8	1	R\W	Load Monitor Enable for way 3
0x000078eb (30955)	Way Load Monitor Enable Way 4	uint8	1	R\W	Load Monitor Enable for way 4

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Way Load Monitor Frequency

Load Monitor Frequency for way

Offset	Name	Type	Dim	R \ W	Description
0x000078ec (30956)	Way Load Monitor Frequency Way 1	Float	4	R\W	Load Monitor Frequency for way 1. Frequency may be rounded to closest integer in order to enhance performances.
0x000078f0 (30960)	Way Load Monitor Frequency Way 2	Float	4	R\W	Load Monitor Frequency for way 2. Frequency may be rounded to closest integer in order to enhance performances.
0x000078f4 (30964)	Way Load Monitor Frequency Way 3	Float	4	R\W	Load Monitor Frequency for way 3. Frequency may be rounded to closest integer in order to enhance performances.
0x000078f8 (30968)	Way Load Monitor Frequency Way 4	Float	4	R\W	Load Monitor Frequency for way 4. Frequency may be rounded to closest integer in order to enhance performances.

## Way Load Monitor Lowth

Load Monitor Lowth for way

Offset	Name	Type	Dim	R \ W	Description
0x000078fc (30972)	Way Load Monitor Lowth Way 1	Float	4	R\W	Load Monitor Lowth for way 1
0x00007900 (30976)	Way Load Monitor Lowth Way 2	Float	4	R\W	Load Monitor Lowth for way 2
0x00007904 (30980)	Way Load Monitor Lowth Way 3	Float	4	R\W	Load Monitor Lowth for way 3
0x00007908 (30984)	Way Load Monitor Lowth Way 4	Float	4	R\W	Load Monitor Lowth for way 4

## Way Load Monitor Highth

Load Monitor Highth for way

Offset	Name	Type	Dim	R \ W	Description
0x0000790c (30988)	Way Load Monitor Highth Way 1	Float	4	R\W	Load Monitor Highth for way 1
0x00007910 (30992)	Way Load Monitor Highth Way 2	Float	4	R\W	Load Monitor Highth for way 2
0x00007914 (30996)	Way Load Monitor Highth Way 3	Float	4	R\W	Load Monitor Highth for way 3
0x00007918 (31000)	Way Load Monitor Highth Way 4	Float	4	R\W	Load Monitor Highth for way 4

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Auto Setup Apply

Ways autoseup applied parameters area

BlockId	Start Address	End Address	Description
<a href="#">Gain</a>	0x00007940	0x00007950	The gain

### Gain

The gain

Offset	Name	Type	Dim	R \ W	Description
0x00007940 (31040)	AutoSetup Gain Way 1	float	4	R	AutoSetup Gain for way 1
0x00007944 (31044)	AutoSetup Gain Way 2	float	4	R	AutoSetup Gain for way 2
0x00007948 (31048)	AutoSetup Gain Way 3	float	4	R	AutoSetup Gain for way 3
0x0000794c (31052)	AutoSetup Gain Way 4	float	4	R	AutoSetup Gain for way 4

## Dante routing

This area contains informations related to Dante Routing.

BlockId	Start Address	End Address	Description
<a href="#">Gain</a>	0x00008500	0x00008510	Dante route gain for output
<a href="#">DspTapType</a>	0x00008510	0x00008514	Dante route dsp tap type for output
<a href="#">Channel</a>	0x00008514	0x00008518	Dante route channel for output

### Gain

Dante route gain for output

Offset	Name	Type	Dim	R \ W	Description
0x00008500 (34048)	Out 1 Dante Route Gain	float	4	R\W	Dante route gain for output 1
0x00008504 (34052)	Out 2 Dante Route Gain	float	4	R\W	Dante route gain for output 2
0x00008508 (34056)	Out 3 Dante Route Gain	float	4	R\W	Dante route gain for output 3
0x0000850c (34060)	Out 4 Dante Route Gain	float	4	R\W	Dante route gain for output 4

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

#### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## DspTapType

Dante route dsp tap type for output

Offset	Name	Type	Dim	R \ W	Description
0x00008510 (34064)	Out 1 Dante Route DspTapType	uint8	1	RW	Dante route dsp tap type for output 1
0x00008511 (34065)	Out 2 Dante Route DspTapType	uint8	1	RW	Dante route dsp tap type for output 2
0x00008512 (34066)	Out 3 Dante Route DspTapType	uint8	1	RW	Dante route dsp tap type for output 3
0x00008513 (34067)	Out 4 Dante Route DspTapType	uint8	1	RW	Dante route dsp tap type for output 4

## Channel

Dante route channel for output

Offset	Name	Type	Dim	R \ W	Description
0x00008514 (34068)	Out 1 Dante Route Channel	uint8	1	RW	Dante route channel for output 1
0x00008515 (34069)	Out 2 Dante Route Channel	uint8	1	RW	Dante route channel for output 2
0x00008516 (34070)	Out 3 Dante Route Channel	uint8	1	RW	Dante route channel for output 3
0x00008517 (34071)	Out 4 Dante Route Channel	uint8	1	RW	Dante route channel for output 4

## GPI configuration

This area contains informations related to GPI.

BlockId	Start Address	End Address	Description
<a href="#">Mode</a>	0x00009000	0x00009004	Mode configuration for GPI

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

[sales@powersoft.it](mailto:sales@powersoft.it)  
[powersoft-audio.com](http://powersoft-audio.com)

## Mode

Mode configuration for GPI

Offset	Name	Type	Dim	R \ W	Description							
0x00009000 (36864)	GPI 1 Mode	uint8	1	R\W	Describes the configuration of GPI.							
					<table><tr><th>Code</th><th>Mode</th></tr><tr><td>00</td><td>Gain : the GPI is used to control the relative channel gain.</td></tr><tr><td>01</td><td>Other : the GPI is used to control another function.</td></tr></table>		Code	Mode	00	Gain : the GPI is used to control the relative channel gain.	01	Other : the GPI is used to control another function.
					Code	Mode						
					00	Gain : the GPI is used to control the relative channel gain.						
01	Other : the GPI is used to control another function.											
0x00009001 (36865)	GPI 2 Mode	uint8	1	R\W	Describes the configuration of GPI.							
					<table><tr><th>Code</th><th>Mode</th></tr><tr><td>00</td><td>Gain : the GPI is used to control the relative channel gain.</td></tr><tr><td>01</td><td>Other : the GPI is used to control another function.</td></tr></table>		Code	Mode	00	Gain : the GPI is used to control the relative channel gain.	01	Other : the GPI is used to control another function.
					Code	Mode						
					00	Gain : the GPI is used to control the relative channel gain.						
01	Other : the GPI is used to control another function.											
0x00009002 (36866)	GPI 3 Mode	uint8	1	R\W	Describes the configuration of GPI.							
					<table><tr><th>Code</th><th>Mode</th></tr><tr><td>00</td><td>Gain : the GPI is used to control the relative channel gain.</td></tr><tr><td>01</td><td>Other : the GPI is used to control another function.</td></tr></table>		Code	Mode	00	Gain : the GPI is used to control the relative channel gain.	01	Other : the GPI is used to control another function.
					Code	Mode						
					00	Gain : the GPI is used to control the relative channel gain.						
01	Other : the GPI is used to control another function.											
0x00009003 (36867)	GPI 4 Mode	uint8	1	R\W	Describes the configuration of GPI.							
					<table><tr><th>Code</th><th>Mode</th></tr><tr><td>00</td><td>Gain : the GPI is used to control the relative channel gain.</td></tr><tr><td>01</td><td>Other : the GPI is used to control another function.</td></tr></table>		Code	Mode	00	Gain : the GPI is used to control the relative channel gain.	01	Other : the GPI is used to control another function.
					Code	Mode						
					00	Gain : the GPI is used to control the relative channel gain.						
01	Other : the GPI is used to control another function.											

## GPO configuration

This area contains informations related to GPO.

BlockId	Start Address	End Address	Description
<a href="#">Relay</a>	0x00009e00	0x00009e0c	Configuration for Relay

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
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## Relay

Configuration for Relay

Offset	Name	Type	Dim	R \ W	Description							
0x00009e00 (40448)	Relay mode	uint32	4	R\W	Describes the configuration of relay.							
					<table><tr><th>Code</th><th>Mode</th></tr><tr><td>00</td><td>Automatic : open relay when faults indicated by fault masks happens.</td></tr><tr><td>01</td><td>Manual : set and clear relay from protocol depending on Relay State field.</td></tr></table>		Code	Mode	00	Automatic : open relay when faults indicated by fault masks happens.	01	Manual : set and clear relay from protocol depending on Relay State field.
					Code	Mode						
					00	Automatic : open relay when faults indicated by fault masks happens.						
01	Manual : set and clear relay from protocol depending on Relay State field.											
0x00009e08 (40456)	Relay Set State	uint32	4	R\W	If Relay Mode is Manual set 0 to open Relay, set 1 to close it.							

## Power config

This area contains informations related to Standby and Power Configuration.

BlockId	Start Address	End Address	Description
<a href="#">Standby</a>	0x0000a000	0x0000a00c	Amplifier standby commands

## Standby

Amplifier standby commands

Offset	Name	Type	Dim	R \ W	Description
0x0000a000 (40960)	Standby trigger	uint32	4	W	If set to '1' activates the standby if set to '0' deactivates it
<del>0x0000a004 (40964)</del>	<del>Auto turn on enable</del>	<del>uint32</del>	<del>4</del>	<del>R\W</del>	
0x0000a008 (40968)	Auto Power Down Enable	uint32	4	R\W	If set to '1' activates the automatic standby, entering in standby state after 25 minutes without input signal. if set to '0' the amplifier will not enter in automatic standby.

## Readings

This area contains informations related to amplifier readings like meters.

BlockId	Start Address	End Address	Description
<a href="#">Slow Meters</a>	0x0000b000	0x0000b710	This area contains the slow meters.
<a href="#">Fast Meters</a>	0x0000b800	0x0000bbd0	This area contains the fast meters.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Slow Meters

This area contains the slow meters.

BlockId	Start Address	End Address	Description
<a href="#">SlowMeter Ali</a>	0x0000b000	0x0000b020	This area contains the Ali slow meters.
<a href="#">SlowMeter Ampli Channels</a>	0x0000b0f4	0x0000b104	This area contains the Ampli slow meters.
<a href="#">SlowMeter SourceSelection</a>	0x0000b300	0x0000b360	This area contains the SourceSelection slow meters.
<a href="#">SlowMeter Ways</a>	0x0000b478	0x0000b4d8	This area contains the Ways slow meters.
<a href="#">SlowMeter PreWays</a>	0x0000b5e8	0x0000b608	This area contains the PreWays slow meters.
<a href="#">SlowMeter Standby State</a>	0x0000b638	0x0000b63c	This area contains the Standby State slow meters.
<a href="#">SlowMeter ChannelAlarmStatuses</a>	0x0000b63c	0x0000b650	This area contains the ChannelAlarmStatuses slow meters.
<a href="#">SlowMeter AlarmStatus</a>	0x0000b650	0x0000b65c	This area contains the AlarmStatus slow meters.
<a href="#">SlowMeter MuteCodes</a>	0x0000b700	0x0000b710	This area contains the mute codes slow meters.

## SlowMeter Ali

This area contains the Ali slow meters.

Offset	Name	Type	Dim	R \ W	Description
0x0000b000 (45056)	TempTrasf	Float	4	R	Reads the TempTrasf
0x0000b004 (45060)	TempHeatSink	Float	4	R	Reads the TempHeatSink
0x0000b008 (45064)	VMainsRms	Float	4	R	Reads the VMainsRms
0x0000b00c (45068)	VccP	Float	4	R	Reads the VccP
0x0000b010 (45072)	VccN	Float	4	R	Reads the VccN
0x0000b014 (45076)	FanCurrent	Float	4	R	Reads the FanCurrent
0x0000b018 (45080)	VAuxP	Float	4	R	Reads the VAuxP
0x0000b01c (45084)	VAuxN	Float	4	R	Reads the VAuxN

## SlowMeter Ampli Channels

This area contains the Ampli slow meters.

BlockId	Start Address	End Address	Description
<a href="#">SlowMeter Ampli</a>	0x0000b0f4	0x0000b104	This area contains the Ampli slow meters.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## SlowMeter Ampli

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Offset	Name	Type	Dim	R \ W	Description
0x0000b0f4 (45300)	TempCh 1	Float	4	R	Reads the TempCh
0x0000b0f8 (45304)	TempCh 2	Float	4	R	Reads the TempCh
0x0000b0fc (45308)	TempCh 3	Float	4	R	Reads the TempCh
0x0000b100 (45312)	TempCh 4	Float	4	R	Reads the TempCh

## SlowMeter SourceSelection

This area contains the SourceSelection slow meters.

BlockId	Start Address	End Address	Description
<a href="#">PilotToneDetectActual CH 1</a>	0x0000b310	0x0000b320	Reads the detected rms value of pilot Tone on CH 1
<a href="#">PilotToneDetectActual CH 2</a>	0x0000b320	0x0000b330	Reads the detected rms value of pilot Tone on CH 2
<a href="#">PilotToneDetectActual CH 3</a>	0x0000b330	0x0000b340	Reads the detected rms value of pilot Tone on CH 3
<a href="#">PilotToneDetectActual CH 4</a>	0x0000b340	0x0000b350	Reads the detected rms value of pilot Tone on CH 4
<a href="#">PilotToneDetectedActual CH 1</a>	0x0000b350	0x0000b354	Reads the validity of detected pilot Tone on CH 1
<a href="#">PilotToneDetectedActual CH 2</a>	0x0000b354	0x0000b358	Reads the validity of detected pilot Tone on CH 2
<a href="#">PilotToneDetectedActual CH 3</a>	0x0000b358	0x0000b35c	Reads the validity of detected pilot Tone on CH 3
<a href="#">PilotToneDetectedActual CH 4</a>	0x0000b35c	0x0000b360	Reads the validity of detected pilot Tone on CH 4

## PilotToneDetectActual CH 1

Reads the detected rms value of pilot Tone on CH 1

Offset	Name	Type	Dim	R \ W	Description
0x0000b310 (45840)	PilotToneDetectActual CH 1 Source 1	Float	4	R	Reads the detected rms value of pilot Tone on CH 1 of Source 1
0x0000b314 (45844)	PilotToneDetectActual CH 1 Source 2	Float	4	R	Reads the detected rms value of pilot Tone on CH 1 of Source 2
0x0000b318 (45848)	PilotToneDetectActual CH 1 Source 3	Float	4	R	Reads the detected rms value of pilot Tone on CH 1 of Source 3
0x0000b31c (45852)	PilotToneDetectActual CH 1 Source 4	Float	4	R	Reads the detected rms value of pilot Tone on CH 1 of Source 4

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## PilotToneDetectActual CH 2

Reads the detected rms value of pilot Tone on CH 2

Offset	Name	Type	Dim	R \ W	Description
0x0000b320 (45856)	PilotToneDetectActual CH 2 Source 1	Float	4	R	Reads the detected rms value of pilot Tone on CH 2 of Source 1
0x0000b324 (45860)	PilotToneDetectActual CH 2 Source 2	Float	4	R	Reads the detected rms value of pilot Tone on CH 2 of Source 2
0x0000b328 (45864)	PilotToneDetectActual CH 2 Source 3	Float	4	R	Reads the detected rms value of pilot Tone on CH 2 of Source 3
0x0000b32c (45868)	PilotToneDetectActual CH 2 Source 4	Float	4	R	Reads the detected rms value of pilot Tone on CH 2 of Source 4

## PilotToneDetectActual CH 3

Reads the detected rms value of pilot Tone on CH 3

Offset	Name	Type	Dim	R \ W	Description
0x0000b330 (45872)	PilotToneDetectActual CH 3 Source 1	Float	4	R	Reads the detected rms value of pilot Tone on CH 3 of Source 1
0x0000b334 (45876)	PilotToneDetectActual CH 3 Source 2	Float	4	R	Reads the detected rms value of pilot Tone on CH 3 of Source 2
0x0000b338 (45880)	PilotToneDetectActual CH 3 Source 3	Float	4	R	Reads the detected rms value of pilot Tone on CH 3 of Source 3
0x0000b33c (45884)	PilotToneDetectActual CH 3 Source 4	Float	4	R	Reads the detected rms value of pilot Tone on CH 3 of Source 4

## PilotToneDetectActual CH 4

Reads the detected rms value of pilot Tone on CH 4

Offset	Name	Type	Dim	R \ W	Description
0x0000b340 (45888)	PilotToneDetectActual CH 4 Source 1	Float	4	R	Reads the detected rms value of pilot Tone on CH 4 of Source 1
0x0000b344 (45892)	PilotToneDetectActual CH 4 Source 2	Float	4	R	Reads the detected rms value of pilot Tone on CH 4 of Source 2
0x0000b348 (45896)	PilotToneDetectActual CH 4 Source 3	Float	4	R	Reads the detected rms value of pilot Tone on CH 4 of Source 3
0x0000b34c (45900)	PilotToneDetectActual CH 4 Source 4	Float	4	R	Reads the detected rms value of pilot Tone on CH 4 of Source 4

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## PilotToneDetectedActual CH 1

Reads the validity of detected pilot Tone on CH 1

Offset	Name	Type	Dim	R \ W	Description
0x0000b350 (45904)	PilotToneDetectedActual CH 1 Source 1	uint8	1	R	Reads the validity of detected pilot Tone on CH 1
0x0000b351 (45905)	PilotToneDetectedActual CH 1 Source 2	uint8	1	R	Reads the validity of detected pilot Tone on CH 2
0x0000b352 (45906)	PilotToneDetectedActual CH 1 Source 3	uint8	1	R	Reads the validity of detected pilot Tone on CH 3
0x0000b353 (45907)	PilotToneDetectedActual CH 1 Source 4	uint8	1	R	Reads the validity of detected pilot Tone on CH 4

## PilotToneDetectedActual CH 2

Reads the validity of detected pilot Tone on CH 2

Offset	Name	Type	Dim	R \ W	Description
0x0000b354 (45908)	PilotToneDetectedActual CH 2 Source 1	uint8	1	R	Reads the validity of detected pilot Tone on CH 1
0x0000b355 (45909)	PilotToneDetectedActual CH 2 Source 2	uint8	1	R	Reads the validity of detected pilot Tone on CH 2
0x0000b356 (45910)	PilotToneDetectedActual CH 2 Source 3	uint8	1	R	Reads the validity of detected pilot Tone on CH 3
0x0000b357 (45911)	PilotToneDetectedActual CH 2 Source 4	uint8	1	R	Reads the validity of detected pilot Tone on CH 4

## PilotToneDetectedActual CH 3

Reads the validity of detected pilot Tone on CH 3

Offset	Name	Type	Dim	R \ W	Description
0x0000b358 (45912)	PilotToneDetectedActual CH 3 Source 1	uint8	1	R	Reads the validity of detected pilot Tone on CH 1
0x0000b359 (45913)	PilotToneDetectedActual CH 3 Source 2	uint8	1	R	Reads the validity of detected pilot Tone on CH 2
0x0000b35a (45914)	PilotToneDetectedActual CH 3 Source 3	uint8	1	R	Reads the validity of detected pilot Tone on CH 3
0x0000b35b (45915)	PilotToneDetectedActual CH 3 Source 4	uint8	1	R	Reads the validity of detected pilot Tone on CH 4

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50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com



## PilotToneDetectedActual CH 4

Reads the validity of detected pilot Tone on CH 4

Offset	Name	Type	Dim	R \ W	Description
0x0000b35c (45916)	PilotToneDetectedActual CH 4 Source 1	uint8	1	R	Reads the validity of detected pilot Tone on CH 1
0x0000b35d (45917)	PilotToneDetectedActual CH 4 Source 2	uint8	1	R	Reads the validity of detected pilot Tone on CH 2
0x0000b35e (45918)	PilotToneDetectedActual CH 4 Source 3	uint8	1	R	Reads the validity of detected pilot Tone on CH 3
0x0000b35f (45919)	PilotToneDetectedActual CH 4 Source 4	uint8	1	R	Reads the validity of detected pilot Tone on CH 4

## SlowMeter Ways

This area contains the Ways slow meters.

BlockId	Start Address	End Address	Description
<a href="#">PilotToneDetection Ways</a>	0x0000b478	0x0000b488	Reads the detected rms value of pilot Tone
<a href="#">PilotToneDetectionImpedance Ways</a>	0x0000b488	0x0000b498	Reads the detected impedance value with pilot Tone
<a href="#">PilotToneDetectedRms Ways</a>	0x0000b4a8	0x0000b4ac	Reads if the detected voltage value is inside specified range
<a href="#">PilotToneDetectedImpedance Ways</a>	0x0000b4ac	0x0000b4b0	Reads if the detected impedance value is inside specified range
<a href="#">PilotToneDetectionRmsIsValid Ways</a>	0x0000b4b4	0x0000b4b8	Reads the validity of voltage detected with pilot Tone
<a href="#">PilotToneDetectionImpedanceRmsIsValid Ways</a>	0x0000b4b8	0x0000b4c8	Reads the validity of impedance detected with pilot Tone

## PilotToneDetection Ways

Reads the detected rms value of pilot Tone

Offset	Name	Type	Dim	R \ W	Description
0x0000b478 (46200)	PilotToneDetection Ways CH 1	Float	4	R	Reads the detected rms value of pilot Tone on CH 1
0x0000b47c (46204)	PilotToneDetection Ways CH 2	Float	4	R	Reads the detected rms value of pilot Tone on CH 2
0x0000b480 (46208)	PilotToneDetection Ways CH 3	Float	4	R	Reads the detected rms value of pilot Tone on CH 3
0x0000b484 (46212)	PilotToneDetection Ways CH 4	Float	4	R	Reads the detected rms value of pilot Tone on CH 4

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## PilotToneDetectionImpedance Ways

Reads the detected impedance value with pilot Tone

Offset	Name	Type	Dim	R \ W	Description
0x0000b488 (46216)	PilotToneDetectionImpedance Ways CH 1	Float	4	R	Reads the detected impedance value with pilot Tone on CH 1
0x0000b48c (46220)	PilotToneDetectionImpedance Ways CH 2	Float	4	R	Reads the detected impedance value with pilot Tone on CH 2
0x0000b490 (46224)	PilotToneDetectionImpedance Ways CH 3	Float	4	R	Reads the detected impedance value with pilot Tone on CH 3
0x0000b494 (46228)	PilotToneDetectionImpedance Ways CH 4	Float	4	R	Reads the detected impedance value with pilot Tone on CH 4

## PilotToneDetectedRms Ways

Reads if the detected voltage value is inside specified range

Offset	Name	Type	Dim	R \ W	Description
0x0000b4a8 (46248)	PilotToneDetectedRms Ways CH 1	uint8	1	R	Reads if the detected voltage value is inside specified range on CH 1. If so data is 1 else 0.
0x0000b4a9 (46249)	PilotToneDetectedRms Ways CH 2	uint8	1	R	Reads if the detected voltage value is inside specified range on CH 2. If so data is 1 else 0.
0x0000b4aa (46250)	PilotToneDetectedRms Ways CH 3	uint8	1	R	Reads if the detected voltage value is inside specified range on CH 3. If so data is 1 else 0.
0x0000b4ab (46251)	PilotToneDetectedRms Ways CH 4	uint8	1	R	Reads if the detected voltage value is inside specified range on CH 4. If so data is 1 else 0.

## PilotToneDetectedImpedance Ways

Reads if the detected impedance value is inside specified range

Offset	Name	Type	Dim	R \ W	Description
0x0000b4ac (46252)	PilotToneDetectedImpedance Ways CH 1	uint8	1	R	Reads if the detected impedance value is inside specified range on CH 1. If so data is 1 else 0.
0x0000b4ad (46253)	PilotToneDetectedImpedance Ways CH 2	uint8	1	R	Reads if the detected impedance value is inside specified range on CH 2. If so data is 1 else 0.
0x0000b4ae (46254)	PilotToneDetectedImpedance Ways CH 3	uint8	1	R	Reads if the detected impedance value is inside specified range on CH 3. If so data is 1 else 0.
0x0000b4af (46255)	PilotToneDetectedImpedance Ways CH 4	uint8	1	R	Reads if the detected impedance value is inside specified range on CH 4. If so data is 1 else 0.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
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### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## PilotToneDetectionRmslsValid Ways

Reads the validity of voltage detected with pilot Tone

Offset	Name	Type	Dim	R \ W	Description
0x0000b4b4 (46260)	PilotToneDetectionRmslsValid Ways CH 1	uint8	1	R	Reads the validity of voltage detected with pilot Tone on CH 1. If readings is valid data is 1 else 0.
0x0000b4b5 (46261)	PilotToneDetectionRmslsValid Ways CH 2	uint8	1	R	Reads the validity of voltage detected with pilot Tone on CH 2. If readings is valid data is 1 else 0.
0x0000b4b6 (46262)	PilotToneDetectionRmslsValid Ways CH 3	uint8	1	R	Reads the validity of voltage detected with pilot Tone on CH 3. If readings is valid data is 1 else 0.
0x0000b4b7 (46263)	PilotToneDetectionRmslsValid Ways CH 4	uint8	1	R	Reads the validity of voltage detected with pilot Tone on CH 4. If readings is valid data is 1 else 0.

## PilotToneDetectionImpedanceRmslsValid Ways

Reads the validity of impedance detected with pilot Tone

Offset	Name	Type	Dim	R \ W	Description
0x0000b4b8 (46264)	PilotToneDetectionImpedanceRmslsValid Ways CH 1	uint32	4	R	Reads the validity of impedance detected with pilot Tone on CH 1. If readings is valid data is 1 else 0.
0x0000b4bc (46268)	PilotToneDetectionImpedanceRmslsValid Ways CH 2	uint32	4	R	Reads the validity of impedance detected with pilot Tone on CH 2. If readings is valid data is 1 else 0.
0x0000b4c0 (46272)	PilotToneDetectionImpedanceRmslsValid Ways CH 3	uint32	4	R	Reads the validity of impedance detected with pilot Tone on CH 3. If readings is valid data is 1 else 0.
0x0000b4c4 (46276)	PilotToneDetectionImpedanceRmslsValid Ways CH 4	uint32	4	R	Reads the validity of impedance detected with pilot Tone on CH 4. If readings is valid data is 1 else 0.

## SlowMeter PreWays

This area contains the PreWays slow meters.

BlockId	Start Address	End Address	Description
<a href="#">SlowMeter ExternalGain</a>	0x0000b5e8	0x0000b5f8	This area contains the PreWays ExternalGain.
<a href="#">SlowMeter GPI scaled value</a>	0x0000b5f8	0x0000b608	This area contains the GPI scaled value.

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## SlowMeter ExternalGain

This area contains the PreWays ExternalGain.

Offset	Name	Type	Dim	R \ W	Description
0x0000b5e8 (46568)	SlowMeter PreWays CH 1	Float	4	R	Reads the ExternalGain for channel 1
0x0000b5ec (46572)	SlowMeter PreWays CH 2	Float	4	R	Reads the ExternalGain for channel 2
0x0000b5f0 (46576)	SlowMeter PreWays CH 3	Float	4	R	Reads the ExternalGain for channel 3
0x0000b5f4 (46580)	SlowMeter PreWays CH 4	Float	4	R	Reads the ExternalGain for channel 4

## SlowMeter GPI scaled value

This area contains the GPI scaled value.

Offset	Name	Type	Dim	R \ W	Description
0x0000b5f8 (46584)	SlowMeter GPI scaled value CH 1	Float	4	R	Reads the GPI scaled value for channel 1
0x0000b5fc (46588)	SlowMeter GPI scaled value CH 2	Float	4	R	Reads the GPI scaled value for channel 2
0x0000b600 (46592)	SlowMeter GPI scaled value CH 3	Float	4	R	Reads the GPI scaled value for channel 3
0x0000b604 (46596)	SlowMeter GPI scaled value CH 4	Float	4	R	Reads the GPI scaled value for channel 4

## SlowMeter Standby State

This area contains the Standby State slow meters.

Offset	Name	Type	Dim	R \ W	Description
0x0000b638 (46648)	Standby Active	uint32	4	R	If 1 the Standby is active, else 0.

## SlowMeter ChannelAlarmStatuses

This area contains the ChannelAlarmStatuses slow meters.

BlockId	Start Address	End Address	Description
<a href="#">SoaThermal Channel Alarm Statuses</a>	0x0000b640	0x0000b644	Reads the SoaThermal Alarm
<a href="#">Temp Channel Alarm Statuses</a>	0x0000b644	0x0000b648	Reads the Temp Alarm
<a href="#">VRail Channel Alarm Statuses</a>	0x0000b648	0x0000b64c	Reads the VRail Alarm

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

[sales@powersoft.it](mailto:sales@powersoft.it)  
[powersoft-audio.com](http://powersoft-audio.com)

## SoaThermal Channel Alarm Statuses

Reads the SoaThermal Alarm

Offset	Name	Type	Dim	R \ W	Description
0x0000b640 (46656)	SoaThermal CH 1	uint8	1	R	Reads the SoaThermal Alarm for CH 1
0x0000b641 (46657)	SoaThermal CH 2	uint8	1	R	Reads the SoaThermal Alarm for CH 2
0x0000b642 (46658)	SoaThermal CH 3	uint8	1	R	Reads the SoaThermal Alarm for CH 3
0x0000b643 (46659)	SoaThermal CH 4	uint8	1	R	Reads the SoaThermal Alarm for CH 4

## Temp Channel Alarm Statuses

Reads the Temp Alarm

Offset	Name	Type	Dim	R \ W	Description
0x0000b644 (46660)	Temp CH 1	uint8	1	R	Reads the Temp Alarm for CH 1
0x0000b645 (46661)	Temp CH 2	uint8	1	R	Reads the Temp Alarm for CH 2
0x0000b646 (46662)	Temp CH 3	uint8	1	R	Reads the Temp Alarm for CH 3
0x0000b647 (46663)	Temp CH 4	uint8	1	R	Reads the Temp Alarm for CH 4

## VRail Channel Alarm Statuses

Reads the VRail Alarm

Offset	Name	Type	Dim	R \ W	Description
0x0000b648 (46664)	VRail CH 1	uint8	1	R	Reads the VRail Alarm for CH 1
0x0000b649 (46665)	VRail CH 2	uint8	1	R	Reads the VRail Alarm for CH 2
0x0000b64a (46666)	VRail CH 3	uint8	1	R	Reads the VRail Alarm for CH 3
0x0000b64b (46667)	VRail CH 4	uint8	1	R	Reads the VRail Alarm for CH 4

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## SlowMeter AlarmStatus

This area contains the AlarmStatus slow meters.

Offset	Name	Type	Dim	R \ W	Description																																								
0x0000b650 (46672)	Fan	uint8	1	R	Reads the Fan																																								
0x0000b651 (46673)	HighOverTemperature	uint8	1	R	Reads 1 when temperature of the amplifier overcomes 95 C°, else 0.																																								
0x0000b653 (46675)	PsTempAlarmStatus	uint8	1	R	Reads the PsTempAlarmStatus																																								
0x0000b654 (46676)	VAuxAlarmStatus	uint8	1	R	Reads the VAuxAlarmStatus																																								
0x0000b655 (46677)	GenericFault	uint8	1	R	Generic Fault																																								
0x0000b656 (46678)	FaultCode	uint8	1	R	Code to identify any active fault.																																								
					<table><tr><th>code</th><th>fault</th></tr><tr><td>00</td><td>No Fault</td></tr><tr><td>01</td><td>HWGoodT</td></tr><tr><td>02</td><td>PGoodPOn</td></tr><tr><td>03</td><td>CtrlVer</td></tr><tr><td>04</td><td>RailsPOn</td></tr><tr><td>05</td><td>RailsOverV</td></tr><tr><td>06</td><td>RailsUnderV</td></tr><tr><td>07</td><td>OutDC</td></tr><tr><td>08</td><td>Fan Broken</td></tr><tr><td>09</td><td>Fan Short</td></tr><tr><td>10</td><td>Fan Stuck</td></tr><tr><td>11</td><td>Software</td></tr><tr><td>12</td><td>MainBoardVer</td></tr><tr><td>13</td><td>PGoodMon</td></tr><tr><td>14</td><td>FuseBlown</td></tr><tr><td>15</td><td>PsuTemp</td></tr><tr><td>16</td><td>HiFreq</td></tr><tr><td>17</td><td>Model</td></tr><tr><td>18</td><td>OverCurrPOn</td></tr></table>	code	fault	00	No Fault	01	HWGoodT	02	PGoodPOn	03	CtrlVer	04	RailsPOn	05	RailsOverV	06	RailsUnderV	07	OutDC	08	Fan Broken	09	Fan Short	10	Fan Stuck	11	Software	12	MainBoardVer	13	PGoodMon	14	FuseBlown	15	PsuTemp	16	HiFreq	17	Model	18	OverCurrPOn
					code	fault																																							
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					13	PGoodMon																																							
					14	FuseBlown																																							
					15	PsuTemp																																							
16	HiFreq																																												
17	Model																																												
18	OverCurrPOn																																												
0x0000b657 (46679)	GPO relay State	uint8	1	R	Describes the actual state of relay: if 1 it is closed, if 0 it is open.																																								
0x0000b658 (46680)	Fault Code Flags	uint32	4	R	Bitwise description of all active faults. Bit position follow the codes of FaultCode starting from LSB.																																								

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50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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powersoft-audio.com

## SlowMeter MuteCodes

This area contains the mute codes slow meters.

BlockId	Start Address	End Address	Description																																							
<a href="#">Mute Codes Flags</a>	0x0000b700	0x0000b710	Bitwise description of all active mutes. Bit position starts from LSB following the codes on mute code table.																																							
			code	fault	00	Reserved	01	Reserved	02	Reserved	03	Positive Rail out of range	04	Negative Rails out of range	05	Short Circuit	06	Reserved	07	Reserved	08	Over Temperature	09	High Frequency	10	Reserved	11	Reserved	12	Reserved	13	Reserved	14	Mains Under Voltage	15	Mains Over Voltage	16	Reserved	17	Reserved	18	Reserved
			code	fault																																						
			00	Reserved																																						
			01	Reserved																																						
			02	Reserved																																						
			03	Positive Rail out of range																																						
			04	Negative Rails out of range																																						
			05	Short Circuit																																						
			06	Reserved																																						
			07	Reserved																																						
			08	Over Temperature																																						
			09	High Frequency																																						
			10	Reserved																																						
			11	Reserved																																						
			12	Reserved																																						
			13	Reserved																																						
			14	Mains Under Voltage																																						
			15	Mains Over Voltage																																						
			16	Reserved																																						
17	Reserved																																									
18	Reserved																																									

## Mute Codes Flags

Bitwise description of all active mutes. Bit position starts from LSB following the codes on mute code table.

Offset	Name	Type	Dim	R \ W	Description
0x0000b700 (46848)	Mute Code Flags CH 1	uint32	4	R	If a mute is active the bit in the position of the corresponding code is set to 1
0x0000b704 (46852)	Mute Code Flags CH 2	uint32	4	R	If a mute is active the bit in the position of the corresponding code is set to 1
0x0000b708 (46856)	Mute Code Flags CH 3	uint32	4	R	If a mute is active the bit in the position of the corresponding code is set to 1
0x0000b70c (46860)	Mute Code Flags CH 4	uint32	4	R	If a mute is active the bit in the position of the corresponding code is set to 1

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
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## Fast Meters

This area contains the fast meters.

BlockId	Start Address	End Address	Description
<a href="#">FastMeter SourceSelection</a>	0x0000b800	0x0000ba10	This area contains the SourceSelection fast meters.
<a href="#">FastMeter InputMatrix</a>	0x0000ba40	0x0000ba60	This area contains the InputMatrix fast meters.
<a href="#">FastMeter Ways</a>	0x0000bac0	0x0000bbb8	This area contains the Ways fast meters.
<a href="#">FastMeter PowerSupply</a>	0x0000bbb8	0x0000bbc4	This area contains the PowerSupply fast meters.

## FastMeter SourceSelection

This area contains the SourceSelection fast meters.

BlockId	Start Address	End Address	Description
<a href="#">FastMeter Source Selection Source 1</a>	0x0000b800	0x0000b880	This area contains the source selection fast meter for Source 1.
<a href="#">FastMeter Source Selection Source 2</a>	0x0000b880	0x0000b900	This area contains the source selection fast meter for Source 2.
<a href="#">FastMeter Source Selection Source 3</a>	0x0000b900	0x0000b980	This area contains the source selection fast meter for Source 3.
<a href="#">FastMeter Source Selection Source 4</a>	0x0000b980	0x0000ba00	This area contains the source selection fast meter for Source 4.
<a href="#">FastMeter SourceSelection Backup Settings</a>	0x0000ba00	0x0000ba10	This area contains the Source Selection -> Backup Settings fast meters.

## FastMeter Source Selection Source 1

This area contains the source selection fast meter for Source 1.

BlockId	Start Address	End Address	Description
<a href="#">Source 1 Type</a>	0x0000b800	0x0000b808	
<a href="#">Source 1 Channel</a>	0x0000b808	0x0000b810	
<a href="#">Source 1 Peak</a>	0x0000b810	0x0000b820	Reads the Source 1 Peak
<a href="#">Source 1 Rms</a>	0x0000b820	0x0000b830	Reads the Source 1 Rms
<a href="#">Source 1 Presence</a>	0x0000b830	0x0000b840	Reads the Source 1 Presence
<a href="#">Source 1 Clip</a>	0x0000b840	0x0000b850	Reads the Source 1 Clip
<a href="#">Source 1 Spare 1</a>	0x0000b850	0x0000b860	Source 1 Spare 1
<a href="#">Source 1 Spare 2</a>	0x0000b860	0x0000b870	Source 1 Spare 2
<a href="#">Source 1 Spare 3</a>	0x0000b870	0x0000b880	Source 1 Spare 3

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Source 1 Type

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x0000b800 (47104)	Source 1 - Type - Channel 1	uint16	2	R	
0x0000b802 (47106)	Source 1 - Type - Channel 2	uint16	2	R	
0x0000b804 (47108)	Source 1 - Type - Channel 3	uint16	2	R	
0x0000b806 (47110)	Source 1 - Type - Channel 4	uint16	2	R	

## Source 1 Channel

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x0000b808 (47112)	Source 1 - Channel - Channel 1	uint16	2	R	
0x0000b80a (47114)	Source 1 - Channel - Channel 2	uint16	2	R	
0x0000b80c (47116)	Source 1 - Channel - Channel 3	uint16	2	R	
0x0000b80e (47118)	Source 1 - Channel - Channel 4	uint16	2	R	

## Source 1 Peak

Reads the Source 1 Peak

Offset	Name	Type	Dim	R \ W	Description
0x0000b810 (47120)	Source 1 - Peak - Channel 1	Float	4	R	Reads the Source 1 - Peak for Channel 1.
0x0000b814 (47124)	Source 1 - Peak - Channel 2	Float	4	R	Reads the Source 1 - Peak for Channel 2.
0x0000b818 (47128)	Source 1 - Peak - Channel 3	Float	4	R	Reads the Source 1 - Peak for Channel 3.
0x0000b81c (47132)	Source 1 - Peak - Channel 4	Float	4	R	Reads the Source 1 - Peak for Channel 4.

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50018 Scandicci, FI, Italy  
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## Source 1 Rms

Reads the Source 1 Rms

Offset	Name	Type	Dim	R \ W	Description
0x0000b820 (47136)	Source 1 - Rms - Channel 1	Float	4	R	Reads the Source 1 - Rms for Channel 1.
0x0000b824 (47140)	Source 1 - Rms - Channel 2	Float	4	R	Reads the Source 1 - Rms for Channel 2.
0x0000b828 (47144)	Source 1 - Rms - Channel 3	Float	4	R	Reads the Source 1 - Rms for Channel 3.
0x0000b82c (47148)	Source 1 - Rms - Channel 4	Float	4	R	Reads the Source 1 - Rms for Channel 4.

## Source 1 Presence

Reads the Source 1 Presence

Offset	Name	Type	Dim	R \ W	Description
0x0000b830 (47152)	Source 1 - Presence - Channel 1	uint32	4	R	Reads the Source 1 - Presence for Channel 1.
0x0000b834 (47156)	Source 1 - Presence - Channel 2	uint32	4	R	Reads the Source 1 - Presence for Channel 2.
0x0000b838 (47160)	Source 1 - Presence - Channel 3	uint32	4	R	Reads the Source 1 - Presence for Channel 3.
0x0000b83c (47164)	Source 1 - Presence - Channel 4	uint32	4	R	Reads the Source 1 - Presence for Channel 4.

## Source 1 Clip

Reads the Source 1 Clip

Offset	Name	Type	Dim	R \ W	Description
0x0000b840 (47168)	Source 1 - Clip - Channel 1	uint32	4	R	Reads the Source 1 - Clip for Channel 1.
0x0000b844 (47172)	Source 1 - Clip - Channel 2	uint32	4	R	Reads the Source 1 - Clip for Channel 2.
0x0000b848 (47176)	Source 1 - Clip - Channel 3	uint32	4	R	Reads the Source 1 - Clip for Channel 3.
0x0000b84c (47180)	Source 1 - Clip - Channel 4	uint32	4	R	Reads the Source 1 - Clip for Channel 4.

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50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Source 1 Spare 1

Source 1 Spare 1

Offset	Name	Type	Dim	R \ W	Description
0x0000b850 (47184)	Source 1 - Spare 1 - Channel 1	uint32	4	R	Reads the Source 1 - Spare 1 for Channel 1.
0x0000b854 (47188)	Source 1 - Spare 1 - Channel 2	uint32	4	R	Reads the Source 1 - Spare 1 for Channel 2.
0x0000b858 (47192)	Source 1 - Spare 1 - Channel 3	uint32	4	R	Reads the Source 1 - Spare 1 for Channel 3.
0x0000b85c (47196)	Source 1 - Spare 1 - Channel 4	uint32	4	R	Reads the Source 1 - Spare 1 for Channel 4.

## Source 1 Spare 2

Source 1 Spare 2

Offset	Name	Type	Dim	R \ W	Description
0x0000b860 (47200)	Source 1 - Spare 2 - Channel 1	uint32	4	R	Reads the Source 1 - Spare 2 for Channel 1.
0x0000b864 (47204)	Source 1 - Spare 2 - Channel 2	uint32	4	R	Reads the Source 1 - Spare 2 for Channel 2.
0x0000b868 (47208)	Source 1 - Spare 2 - Channel 3	uint32	4	R	Reads the Source 1 - Spare 2 for Channel 3.
0x0000b86c (47212)	Source 1 - Spare 2 - Channel 4	uint32	4	R	Reads the Source 1 - Spare 2 for Channel 4.

## Source 1 Spare 3

Source 1 Spare 3

Offset	Name	Type	Dim	R \ W	Description
0x0000b870 (47216)	Source 1 - Spare 3 - Channel 1	uint32	4	R	Reads the Source 1 - Spare 3 for Channel 1.
0x0000b874 (47220)	Source 1 - Spare 3 - Channel 2	uint32	4	R	Reads the Source 1 - Spare 3 for Channel 2.
0x0000b878 (47224)	Source 1 - Spare 3 - Channel 3	uint32	4	R	Reads the Source 1 - Spare 3 for Channel 3.
0x0000b87c (47228)	Source 1 - Spare 3 - Channel 4	uint32	4	R	Reads the Source 1 - Spare 3 for Channel 4.

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50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## FastMeter Source Selection Source 2

This area contains the source selection fast meter for Source 2.

BlockId	Start Address	End Address	Description
<a href="#">Source 2 Type</a>	0x0000b880	0x0000b888	
<a href="#">Source 2 Channel</a>	0x0000b888	0x0000b890	
<a href="#">Source 2 Peak</a>	0x0000b890	0x0000b8a0	Reads the Source 2 Peak
<a href="#">Source 2 Rms</a>	0x0000b8a0	0x0000b8b0	Reads the Source 2 Rms
<a href="#">Source 2 Presence</a>	0x0000b8b0	0x0000b8c0	Reads the Source 2 Presence
<a href="#">Source 2 Clip</a>	0x0000b8c0	0x0000b8d0	Reads the Source 2 Clip
<a href="#">Source 2 Spare 1</a>	0x0000b8d0	0x0000b8e0	Source 2 Spare 1
<a href="#">Source 2 Spare 2</a>	0x0000b8e0	0x0000b8f0	Source 2 Spare 2
<a href="#">Source 2 Spare 3</a>	0x0000b8f0	0x0000b900	Source 2 Spare 3

## Source 2 Type

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x0000b880 (47232)	<del>Source 2 Type Channel 1</del>	uint16	2	R	
0x0000b882 (47234)	<del>Source 2 Type Channel 2</del>	uint16	2	R	
0x0000b884 (47236)	<del>Source 2 Type Channel 3</del>	uint16	2	R	
0x0000b886 (47238)	<del>Source 2 Type Channel 4</del>	uint16	2	R	

## Source 2 Channel

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x0000b888 (47240)	<del>Source 2 Channel Channel 1</del>	uint16	2	R	
0x0000b88a (47242)	<del>Source 2 Channel Channel 2</del>	uint16	2	R	
0x0000b88c (47244)	<del>Source 2 Channel Channel 3</del>	uint16	2	R	
0x0000b88e (47246)	<del>Source 2 Channel Channel 4</del>	uint16	2	R	

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50018 Scandicci, FI, Italy  
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## Source 2 Peak

Reads the Source 2 Peak

Offset	Name	Type	Dim	R \ W	Description
0x0000b890 (47248)	Source 2 - Peak - Channel 1	Float	4	R	Reads the Source 2 - Peak for Channel 1.
0x0000b894 (47252)	Source 2 - Peak - Channel 2	Float	4	R	Reads the Source 2 - Peak for Channel 2.
0x0000b898 (47256)	Source 2 - Peak - Channel 3	Float	4	R	Reads the Source 2 - Peak for Channel 3.
0x0000b89c (47260)	Source 2 - Peak - Channel 4	Float	4	R	Reads the Source 2 - Peak for Channel 4.

## Source 2 Rms

Reads the Source 2 Rms

Offset	Name	Type	Dim	R \ W	Description
0x0000b8a0 (47264)	Source 2 - Rms - Channel 1	Float	4	R	Reads the Source 2 - Rms for Channel 1.
0x0000b8a4 (47268)	Source 2 - Rms - Channel 2	Float	4	R	Reads the Source 2 - Rms for Channel 2.
0x0000b8a8 (47272)	Source 2 - Rms - Channel 3	Float	4	R	Reads the Source 2 - Rms for Channel 3.
0x0000b8ac (47276)	Source 2 - Rms - Channel 4	Float	4	R	Reads the Source 2 - Rms for Channel 4.

## Source 2 Presence

Reads the Source 2 Presence

Offset	Name	Type	Dim	R \ W	Description
0x0000b8b0 (47280)	Source 2 - Presence - Channel 1	uint32	4	R	Reads the Source 2 - Presence for Channel 1.
0x0000b8b4 (47284)	Source 2 - Presence - Channel 2	uint32	4	R	Reads the Source 2 - Presence for Channel 2.
0x0000b8b8 (47288)	Source 2 - Presence - Channel 3	uint32	4	R	Reads the Source 2 - Presence for Channel 3.
0x0000b8bc (47292)	Source 2 - Presence - Channel 4	uint32	4	R	Reads the Source 2 - Presence for Channel 4.

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50018 Scandicci, FI, Italy  
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## Source 2 Clip

Reads the Source 2 Clip

Offset	Name	Type	Dim	R \ W	Description
0x0000b8c0 (47296)	Source 2 - Clip - Channel 1	uint32	4	R	Reads the Source 2 - Clip for Channel 1.
0x0000b8c4 (47300)	Source 2 - Clip - Channel 2	uint32	4	R	Reads the Source 2 - Clip for Channel 2.
0x0000b8c8 (47304)	Source 2 - Clip - Channel 3	uint32	4	R	Reads the Source 2 - Clip for Channel 3.
0x0000b8cc (47308)	Source 2 - Clip - Channel 4	uint32	4	R	Reads the Source 2 - Clip for Channel 4.

## Source 2 Spare 1

Source 2 Spare 1

Offset	Name	Type	Dim	R \ W	Description
0x0000b8d0 (47312)	Source 2 - Spare 1 - Channel 1	uint32	4	R	Reads the Source 2 - Spare 1 for Channel 1.
0x0000b8d4 (47316)	Source 2 - Spare 1 - Channel 2	uint32	4	R	Reads the Source 2 - Spare 1 for Channel 2.
0x0000b8d8 (47320)	Source 2 - Spare 1 - Channel 3	uint32	4	R	Reads the Source 2 - Spare 1 for Channel 3.
0x0000b8dc (47324)	Source 2 - Spare 1 - Channel 4	uint32	4	R	Reads the Source 2 - Spare 1 for Channel 4.

## Source 2 Spare 2

Source 2 Spare 2

Offset	Name	Type	Dim	R \ W	Description
0x0000b8e0 (47328)	Source 2 - Spare 2 - Channel 1	uint32	4	R	Reads the Source 2 - Spare 2 for Channel 1.
0x0000b8e4 (47332)	Source 2 - Spare 2 - Channel 2	uint32	4	R	Reads the Source 2 - Spare 2 for Channel 2.
0x0000b8e8 (47336)	Source 2 - Spare 2 - Channel 3	uint32	4	R	Reads the Source 2 - Spare 2 for Channel 3.
0x0000b8ec (47340)	Source 2 - Spare 2 - Channel 4	uint32	4	R	Reads the Source 2 - Spare 2 for Channel 4.

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50018 Scandicci, FI, Italy  
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## Source 2 Spare 3

Source 2 Spare 3

Offset	Name	Type	Dim	R \ W	Description
0x0000b8f0 (47344)	Source 2 - Spare 3 - Channel 1	uint32	4	R	Reads the Source 2 - Spare 3 for Channel 1.
0x0000b8f4 (47348)	Source 2 - Spare 3 - Channel 2	uint32	4	R	Reads the Source 2 - Spare 3 for Channel 2.
0x0000b8f8 (47352)	Source 2 - Spare 3 - Channel 3	uint32	4	R	Reads the Source 2 - Spare 3 for Channel 3.
0x0000b8fc (47356)	Source 2 - Spare 3 - Channel 4	uint32	4	R	Reads the Source 2 - Spare 3 for Channel 4.

## FastMeter Source Selection Source 3

This area contains the source selection fast meter for Source 3.

BlockId	Start Address	End Address	Description
<a href="#">Source 3 Type</a>	0x0000b900	0x0000b908	
<a href="#">Source 3 Channel</a>	0x0000b908	0x0000b910	
<a href="#">Source 3 Peak</a>	0x0000b910	0x0000b920	Reads the Source 3 Peak
<a href="#">Source 3 Rms</a>	0x0000b920	0x0000b930	Reads the Source 3 Rms
<a href="#">Source 3 Presence</a>	0x0000b930	0x0000b940	Reads the Source 3 Presence
<a href="#">Source 3 Clip</a>	0x0000b940	0x0000b950	Reads the Source 3 Clip
<a href="#">Source 3 Spare 1</a>	0x0000b950	0x0000b960	Source 3 Spare 1
<a href="#">Source 3 Spare 2</a>	0x0000b960	0x0000b970	Source 3 Spare 2
<a href="#">Source 3 Spare 3</a>	0x0000b970	0x0000b980	Source 3 Spare 3

## Source 3 Type

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x0000b900 (47360)	<del>Source 3 Type Channel 1</del>	<del>uint16</del>	<del>2</del>	<del>R</del>	
0x0000b902 (47362)	<del>Source 3 Type Channel 2</del>	<del>uint16</del>	<del>2</del>	<del>R</del>	
0x0000b904 (47364)	<del>Source 3 Type Channel 3</del>	<del>uint16</del>	<del>2</del>	<del>R</del>	
0x0000b906 (47366)	<del>Source 3 Type Channel 4</del>	<del>uint16</del>	<del>2</del>	<del>R</del>	

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50018 Scandicci, FI, Italy  
T. +39 055 735 0230

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50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Source 3 Channel

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x0000b908 (47368)	Source 3 - Channel - Channel 1	uint16	2	R	
0x0000b90a (47370)	Source 3 - Channel - Channel 2	uint16	2	R	
0x0000b90c (47372)	Source 3 - Channel - Channel 3	uint16	2	R	
0x0000b90e (47374)	Source 3 - Channel - Channel 4	uint16	2	R	

## Source 3 Peak

Reads the Source 3 Peak

Offset	Name	Type	Dim	R \ W	Description
0x0000b910 (47376)	Source 3 - Peak - Channel 1	Float	4	R	Reads the Source 3 - Peak for Channel 1.
0x0000b914 (47380)	Source 3 - Peak - Channel 2	Float	4	R	Reads the Source 3 - Peak for Channel 2.
0x0000b918 (47384)	Source 3 - Peak - Channel 3	Float	4	R	Reads the Source 3 - Peak for Channel 3.
0x0000b91c (47388)	Source 3 - Peak - Channel 4	Float	4	R	Reads the Source 3 - Peak for Channel 4.

## Source 3 Rms

Reads the Source 3 Rms

Offset	Name	Type	Dim	R \ W	Description
0x0000b920 (47392)	Source 3 - Rms - Channel 1	Float	4	R	Reads the Source 3 - Rms for Channel 1.
0x0000b924 (47396)	Source 3 - Rms - Channel 2	Float	4	R	Reads the Source 3 - Rms for Channel 2.
0x0000b928 (47400)	Source 3 - Rms - Channel 3	Float	4	R	Reads the Source 3 - Rms for Channel 3.
0x0000b92c (47404)	Source 3 - Rms - Channel 4	Float	4	R	Reads the Source 3 - Rms for Channel 4.

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50018 Scandicci, FI, Italy  
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## Source 3 Presence

Reads the Source 3 Presence

Offset	Name	Type	Dim	R \ W	Description
0x0000b930 (47408)	Source 3 - Presence - Channel 1	uint32	4	R	Reads the Source 3 - Presence for Channel 1.
0x0000b934 (47412)	Source 3 - Presence - Channel 2	uint32	4	R	Reads the Source 3 - Presence for Channel 2.
0x0000b938 (47416)	Source 3 - Presence - Channel 3	uint32	4	R	Reads the Source 3 - Presence for Channel 3.
0x0000b93c (47420)	Source 3 - Presence - Channel 4	uint32	4	R	Reads the Source 3 - Presence for Channel 4.

## Source 3 Clip

Reads the Source 3 Clip

Offset	Name	Type	Dim	R \ W	Description
0x0000b940 (47424)	Source 3 - Clip - Channel 1	uint32	4	R	Reads the Source 3 - Clip for Channel 1.
0x0000b944 (47428)	Source 3 - Clip - Channel 2	uint32	4	R	Reads the Source 3 - Clip for Channel 2.
0x0000b948 (47432)	Source 3 - Clip - Channel 3	uint32	4	R	Reads the Source 3 - Clip for Channel 3.
0x0000b94c (47436)	Source 3 - Clip - Channel 4	uint32	4	R	Reads the Source 3 - Clip for Channel 4.

## Source 3 Spare 1

Source 3 Spare 1

Offset	Name	Type	Dim	R \ W	Description
0x0000b950 (47440)	Source 3 - Spare 1 - Channel 1	uint32	4	R	Reads the Source 3 - Spare 1 for Channel 1.
0x0000b954 (47444)	Source 3 - Spare 1 - Channel 2	uint32	4	R	Reads the Source 3 - Spare 1 for Channel 2.
0x0000b958 (47448)	Source 3 - Spare 1 - Channel 3	uint32	4	R	Reads the Source 3 - Spare 1 for Channel 3.
0x0000b95c (47452)	Source 3 - Spare 1 - Channel 4	uint32	4	R	Reads the Source 3 - Spare 1 for Channel 4.

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## Source 3 Spare 2

Source 3 Spare 2

Offset	Name	Type	Dim	R \ W	Description
0x0000b960 (47456)	Source 3 - Spare 2 - Channel 1	uint32	4	R	Reads the Source 3 - Spare 2 for Channel 1.
0x0000b964 (47460)	Source 3 - Spare 2 - Channel 2	uint32	4	R	Reads the Source 3 - Spare 2 for Channel 2.
0x0000b968 (47464)	Source 3 - Spare 2 - Channel 3	uint32	4	R	Reads the Source 3 - Spare 2 for Channel 3.
0x0000b96c (47468)	Source 3 - Spare 2 - Channel 4	uint32	4	R	Reads the Source 3 - Spare 2 for Channel 4.

## Source 3 Spare 3

Source 3 Spare 3

Offset	Name	Type	Dim	R \ W	Description
0x0000b970 (47472)	Source 3 - Spare 3 - Channel 1	uint32	4	R	Reads the Source 3 - Spare 3 for Channel 1.
0x0000b974 (47476)	Source 3 - Spare 3 - Channel 2	uint32	4	R	Reads the Source 3 - Spare 3 for Channel 2.
0x0000b978 (47480)	Source 3 - Spare 3 - Channel 3	uint32	4	R	Reads the Source 3 - Spare 3 for Channel 3.
0x0000b97c (47484)	Source 3 - Spare 3 - Channel 4	uint32	4	R	Reads the Source 3 - Spare 3 for Channel 4.

## FastMeter Source Selection Source 4

This area contains the source selection fast meter for Source 4.

BlockId	Start Address	End Address	Description
<a href="#">Source 4 Type</a>	0x0000b980	0x0000b988	
<a href="#">Source 4 Channel</a>	0x0000b988	0x0000b990	
<a href="#">Source 4 Peak</a>	0x0000b990	0x0000b9a0	Reads the Source 4 Peak
<a href="#">Source 4 Rms</a>	0x0000b9a0	0x0000b9b0	Reads the Source 4 Rms
<a href="#">Source 4 Presence</a>	0x0000b9b0	0x0000b9c0	Reads the Source 4 Presence
<a href="#">Source 4 Clip</a>	0x0000b9c0	0x0000b9d0	Reads the Source 4 Clip
<a href="#">Source 4 Spare 1</a>	0x0000b9d0	0x0000b9e0	Source 4 Spare 1
<a href="#">Source 4 Spare 2</a>	0x0000b9e0	0x0000b9f0	Source 4 Spare 2
<a href="#">Source 4 Spare 3</a>	0x0000b9f0	0x0000ba00	Source 4 Spare 3

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50018 Scandicci, FI, Italy  
T. +39 055 735 0230

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50018 Scandicci, FI, Italy  
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## Source 4 Type

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x0000b980 (47488)	Source 4 - Type - Channel 1	uint16	2	R	
0x0000b982 (47490)	Source 4 - Type - Channel 2	uint16	2	R	
0x0000b984 (47492)	Source 4 - Type - Channel 3	uint16	2	R	
0x0000b986 (47494)	Source 4 - Type - Channel 4	uint16	2	R	

## Source 4 Channel

Deprecated since version 1.1.0

Offset	Name	Type	Dim	R \ W	Description
0x0000b988 (47496)	Source 4 - Channel - Channel 1	uint16	2	R	
0x0000b98a (47498)	Source 4 - Channel - Channel 2	uint16	2	R	
0x0000b98e (47500)	Source 4 - Channel - Channel 3	uint16	2	R	
0x0000b990 (47502)	Source 4 - Channel - Channel 4	uint16	2	R	

## Source 4 Peak

Reads the Source 4 Peak

Offset	Name	Type	Dim	R \ W	Description
0x0000b990 (47504)	Source 4 - Peak - Channel 1	Float	4	R	Reads the Source 4 - Peak for Channel 1.
0x0000b994 (47508)	Source 4 - Peak - Channel 2	Float	4	R	Reads the Source 4 - Peak for Channel 2.
0x0000b998 (47512)	Source 4 - Peak - Channel 3	Float	4	R	Reads the Source 4 - Peak for Channel 3.
0x0000b99c (47516)	Source 4 - Peak - Channel 4	Float	4	R	Reads the Source 4 - Peak for Channel 4.

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50018 Scandicci, FI, Italy  
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## Source 4 Rms

Reads the Source 4 Rms

Offset	Name	Type	Dim	R \ W	Description
0x0000b9a0 (47520)	Source 4 - Rms - Channel 1	Float	4	R	Reads the Source 4 - Rms for Channel 1.
0x0000b9a4 (47524)	Source 4 - Rms - Channel 2	Float	4	R	Reads the Source 4 - Rms for Channel 2.
0x0000b9a8 (47528)	Source 4 - Rms - Channel 3	Float	4	R	Reads the Source 4 - Rms for Channel 3.
0x0000b9ac (47532)	Source 4 - Rms - Channel 4	Float	4	R	Reads the Source 4 - Rms for Channel 4.

## Source 4 Presence

Reads the Source 4 Presence

Offset	Name	Type	Dim	R \ W	Description
0x0000b9b0 (47536)	Source 4 - Presence - Channel 1	uint32	4	R	Reads the Source 4 - Presence for Channel 1.
0x0000b9b4 (47540)	Source 4 - Presence - Channel 2	uint32	4	R	Reads the Source 4 - Presence for Channel 2.
0x0000b9b8 (47544)	Source 4 - Presence - Channel 3	uint32	4	R	Reads the Source 4 - Presence for Channel 3.
0x0000b9bc (47548)	Source 4 - Presence - Channel 4	uint32	4	R	Reads the Source 4 - Presence for Channel 4.

## Source 4 Clip

Reads the Source 4 Clip

Offset	Name	Type	Dim	R \ W	Description
0x0000b9c0 (47552)	Source 4 - Clip - Channel 1	uint32	4	R	Reads the Source 4 - Clip for Channel 1.
0x0000b9c4 (47556)	Source 4 - Clip - Channel 2	uint32	4	R	Reads the Source 4 - Clip for Channel 2.
0x0000b9c8 (47560)	Source 4 - Clip - Channel 3	uint32	4	R	Reads the Source 4 - Clip for Channel 3.
0x0000b9cc (47564)	Source 4 - Clip - Channel 4	uint32	4	R	Reads the Source 4 - Clip for Channel 4.

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Source 4 Spare 1

Source 4 Spare 1

Offset	Name	Type	Dim	R \ W	Description
0x0000b9d0 (47568)	Source 4 - Spare 1 - Channel 1	uint32	4	R	Reads the Source 4 - Spare 1 for Channel 1.
0x0000b9d4 (47572)	Source 4 - Spare 1 - Channel 2	uint32	4	R	Reads the Source 4 - Spare 1 for Channel 2.
0x0000b9d8 (47576)	Source 4 - Spare 1 - Channel 3	uint32	4	R	Reads the Source 4 - Spare 1 for Channel 3.
0x0000b9dc (47580)	Source 4 - Spare 1 - Channel 4	uint32	4	R	Reads the Source 4 - Spare 1 for Channel 4.

## Source 4 Spare 2

Source 4 Spare 2

Offset	Name	Type	Dim	R \ W	Description
0x0000b9e0 (47584)	Source 4 - Spare 2 - Channel 1	uint32	4	R	Reads the Source 4 - Spare 2 for Channel 1.
0x0000b9e4 (47588)	Source 4 - Spare 2 - Channel 2	uint32	4	R	Reads the Source 4 - Spare 2 for Channel 2.
0x0000b9e8 (47592)	Source 4 - Spare 2 - Channel 3	uint32	4	R	Reads the Source 4 - Spare 2 for Channel 3.
0x0000b9ec (47596)	Source 4 - Spare 2 - Channel 4	uint32	4	R	Reads the Source 4 - Spare 2 for Channel 4.

## Source 4 Spare 3

Source 4 Spare 3

Offset	Name	Type	Dim	R \ W	Description
0x0000b9f0 (47600)	Source 4 - Spare 3 - Channel 1	uint32	4	R	Reads the Source 4 - Spare 3 for Channel 1.
0x0000b9f4 (47604)	Source 4 - Spare 3 - Channel 2	uint32	4	R	Reads the Source 4 - Spare 3 for Channel 2.
0x0000b9f8 (47608)	Source 4 - Spare 3 - Channel 3	uint32	4	R	Reads the Source 4 - Spare 3 for Channel 3.
0x0000b9fc (47612)	Source 4 - Spare 3 - Channel 4	uint32	4	R	Reads the Source 4 - Spare 3 for Channel 4.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## FastMeter SourceSelection Backup Settings

This area contains the Source Selection -> Backup Settings fast meters.

Offset	Name	Type	Dim	R \ W	Description
0x0000ba00 (47616)	SelectedBackup 1	uint32	4	R	Channel 1 - SelectedBackup
0x0000ba04 (47620)	SelectedBackup 2	uint32	4	R	Channel 2 - SelectedBackup
0x0000ba08 (47624)	SelectedBackup 3	uint32	4	R	Channel 3 - SelectedBackup
0x0000ba0c (47628)	SelectedBackup 4	uint32	4	R	Channel 4 - SelectedBackup

## FastMeter InputMatrix

This area contains the InputMatrix fast meters.

BlockId	Start Address	End Address	Description
<a href="#">FastMeter Peak InputMatrix</a>	0x0000ba40	0x0000ba50	This area contains the InputMatrix Peak fast meters.
<a href="#">FastMeter Rms InputMatrix</a>	0x0000ba50	0x0000ba60	This area contains the InputMatrix Rmsfast meters.

## FastMeter Peak InputMatrix

This area contains the InputMatrix Peak fast meters.

Offset	Name	Type	Dim	R \ W	Description
0x0000ba40 (47680)	Peak InputMatrix 1	Float	4	R	Reads the FastMeter InputMatrix 1 Peak
0x0000ba44 (47684)	Peak InputMatrix 2	Float	4	R	Reads the FastMeter InputMatrix 2 Peak
0x0000ba48 (47688)	Peak InputMatrix 3	Float	4	R	Reads the FastMeter InputMatrix 3 Peak
0x0000ba4c (47692)	Peak InputMatrix 4	Float	4	R	Reads the FastMeter InputMatrix 4 Peak

## FastMeter Rms InputMatrix

This area contains the InputMatrix Rmsfast meters.

Offset	Name	Type	Dim	R \ W	Description
0x0000ba50 (47696)	Rms InputMatrix 1	Float	4	R	Reads the FastMeter InputMatrix 1 Rms
0x0000ba54 (47700)	Rms InputMatrix 2	Float	4	R	Reads the FastMeter InputMatrix 2 Rms
0x0000ba58 (47704)	Rms InputMatrix 3	Float	4	R	Reads the FastMeter InputMatrix 3 Rms
0x0000ba5c (47708)	Rms InputMatrix 4	Float	4	R	Reads the FastMeter InputMatrix 4 Rms

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

[sales@powersoft.it](mailto:sales@powersoft.it)  
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## FastMeter Ways

This area contains the Ways fast meters.

BlockId	Start Address	End Address	Description
<a href="#">FastMeter Ways VPeak</a>	0x0000bac0	0x0000bad0	Reads the VPeak - Voltage
<a href="#">FastMeter Ways VRms</a>	0x0000bad0	0x0000bae0	Reads the VRms - Voltage
<a href="#">FastMeter Ways IPeak</a>	0x0000bae0	0x0000baf0	Reads the IPeak - Current
<a href="#">FastMeter Ways IRms</a>	0x0000baf0	0x0000bb00	Reads the IRms - Current
<a href="#">FastMeter Ways SoaGainReductionThermalLimiter</a>	0x0000bb10	0x0000bb20	Reads the SoaGainReductionThermalLimiter
<a href="#">FastMeter Ways SoaGainReductionVoltageHflLimiter</a>	0x0000bb20	0x0000bb30	Reads the SoaGainReductionVoltageHflLimiter
<a href="#">FastMeter Ways SoaGainReductionCurrentLongLimiter</a>	0x0000bb30	0x0000bb40	Reads the SoaGainReductionCurrentLongLimiter
<a href="#">FastMeter Ways SoaGainReductionCurrentShortLimiter</a>	0x0000bb40	0x0000bb50	Reads the SoaGainReductionCurrentShortLimiter
<a href="#">FastMeter Ways SoaGainReductionPowerLimiter</a>	0x0000bb50	0x0000bb60	Reads the SoaGainReductionPowerLimiter
<a href="#">FastMeter Ways UserGainReductionVoltageLimiterPeak</a>	0x0000bb60	0x0000bb70	Reads the UserGainReductionVoltageLimiterPeak
<a href="#">FastMeter Ways UserGainReductionVoltageLimiterRms</a>	0x0000bb70	0x0000bb80	Reads the UserGainReductionVoltageLimiterRms
<a href="#">FastMeter Ways UserGainReductionClipLimiter</a>	0x0000bb80	0x0000bb90	Reads the UserGainReductionClipLimiter
<a href="#">FastMeter Ways UserGainReductionTotal</a>	0x0000bb90	0x0000bba0	Reads the UserGainReductionTotal
<a href="#">FastMeter Ways SignalPresence</a>	0x0000bba0	0x0000bba4	Reads the SignalPresence
<a href="#">FastMeter Ways Headroom</a>	0x0000bba8	0x0000bbb8	Reads the Headroom

## FastMeter Ways VPeak

Reads the VPeak - Voltage

Offset	Name	Type	Dim	R \ W	Description
0x0000bac0 (47808)	VPeak CH 1	Float	4	R	Reads the VPeak - Voltage for Channel 1 - Voltage
0x0000bac4 (47812)	VPeak CH 2	Float	4	R	Reads the VPeak - Voltage for Channel 2 - Voltage
0x0000bac8 (47816)	VPeak CH 3	Float	4	R	Reads the VPeak - Voltage for Channel 3 - Voltage
0x0000bacc (47820)	VPeak CH 4	Float	4	R	Reads the VPeak - Voltage for Channel 4 - Voltage

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## FastMeter Ways VRms

Reads the VRms - Voltage

Offset	Name	Type	Dim	R \ W	Description
0x0000bad0 (47824)	VRms CH 1	Float	4	R	Reads the VRms for Channel 1 - Voltage
0x0000bad4 (47828)	VRms CH 2	Float	4	R	Reads the VRms for Channel 2 - Voltage
0x0000bad8 (47832)	VRms CH 3	Float	4	R	Reads the VRms for Channel 3 - Voltage
0x0000badc (47836)	VRms CH 4	Float	4	R	Reads the VRms for Channel 4 - Voltage

## FastMeter Ways IPeak

Reads the IPeak - Current

Offset	Name	Type	Dim	R \ W	Description
0x0000bae0 (47840)	IPeak CH 1	Float	4	R	Reads the IPeak for Channel 1 - Current
0x0000bae4 (47844)	IPeak CH 2	Float	4	R	Reads the IPeak for Channel 2 - Current
0x0000bae8 (47848)	IPeak CH 3	Float	4	R	Reads the IPeak for Channel 3 - Current
0x0000baec (47852)	IPeak CH 4	Float	4	R	Reads the IPeak for Channel 4 - Current

## FastMeter Ways IRms

Reads the IRms - Current

Offset	Name	Type	Dim	R \ W	Description
0x0000baf0 (47856)	IRms CH 1	Float	4	R	Reads the IRms for Channel 1 - Current
0x0000baf4 (47860)	IRms CH 2	Float	4	R	Reads the IRms for Channel 2 - Current
0x0000baf8 (47864)	IRms CH 3	Float	4	R	Reads the IRms for Channel 3 - Current
0x0000bafc (47868)	IRms CH 4	Float	4	R	Reads the IRms for Channel 4 - Current

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## FastMeter Ways SoaGainReductionThermalLimiter

Reads the SoaGainReductionThermalLimiter

Offset	Name	Type	Dim	R \ W	Description
0x0000bb10 (47888)	SoaGainReductionThermalLimiter CH 1	Float	4	R	Reads the SoaGainReductionThermalLimiter for Channel 1
0x0000bb14 (47892)	SoaGainReductionThermalLimiter CH 2	Float	4	R	Reads the SoaGainReductionThermalLimiter for Channel 2
0x0000bb18 (47896)	SoaGainReductionThermalLimiter CH 3	Float	4	R	Reads the SoaGainReductionThermalLimiter for Channel 3
0x0000bb1c (47900)	SoaGainReductionThermalLimiter CH 4	Float	4	R	Reads the SoaGainReductionThermalLimiter for Channel 4

## FastMeter Ways SoaGainReductionVoltageHfLimiter

Reads the SoaGainReductionVoltageHfLimiter

Offset	Name	Type	Dim	R \ W	Description
0x0000bb20 (47904)	SoaGainReductionVoltageHfLimiter CH 1	Float	4	R	Reads the SoaGainReductionVoltageHfLimiter for Channel 1
0x0000bb24 (47908)	SoaGainReductionVoltageHfLimiter CH 2	Float	4	R	Reads the SoaGainReductionVoltageHfLimiter for Channel 2
0x0000bb28 (47912)	SoaGainReductionVoltageHfLimiter CH 3	Float	4	R	Reads the SoaGainReductionVoltageHfLimiter for Channel 3
0x0000bb2c (47916)	SoaGainReductionVoltageHfLimiter CH 4	Float	4	R	Reads the SoaGainReductionVoltageHfLimiter for Channel 4

## FastMeter Ways SoaGainReductionCurrentLongLimiter

Reads the SoaGainReductionCurrentLongLimiter

Offset	Name	Type	Dim	R \ W	Description
0x0000bb30 (47920)	SoaGainReductionCurrentLongLimiter CH 1	Float	4	R	Reads the SoaGainReductionCurrentLongLimiter for Channel 1
0x0000bb34 (47924)	SoaGainReductionCurrentLongLimiter CH 2	Float	4	R	Reads the SoaGainReductionCurrentLongLimiter for Channel 2
0x0000bb38 (47928)	SoaGainReductionCurrentLongLimiter CH 3	Float	4	R	Reads the SoaGainReductionCurrentLongLimiter for Channel 3
0x0000bb3c (47932)	SoaGainReductionCurrentLongLimiter CH 4	Float	4	R	Reads the SoaGainReductionCurrentLongLimiter for Channel 4

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## FastMeter Ways SoaGainReductionCurrentShortLimiter

Reads the SoaGainReductionCurrentShortLimiter

Offset	Name	Type	Dim	R \ W	Description
0x0000bb40 (47936)	SoaGainReductionCurrentShortLimiter CH 1	Float	4	R	Reads the SoaGainReductionCurrentShortLimiter for Channel 1
0x0000bb44 (47940)	SoaGainReductionCurrentShortLimiter CH 2	Float	4	R	Reads the SoaGainReductionCurrentShortLimiter for Channel 2
0x0000bb48 (47944)	SoaGainReductionCurrentShortLimiter CH 3	Float	4	R	Reads the SoaGainReductionCurrentShortLimiter for Channel 3
0x0000bb4c (47948)	SoaGainReductionCurrentShortLimiter CH 4	Float	4	R	Reads the SoaGainReductionCurrentShortLimiter for Channel 4

## FastMeter Ways SoaGainReductionPowerLimiter

Reads the SoaGainReductionPowerLimiter

Offset	Name	Type	Dim	R \ W	Description
0x0000bb50 (47952)	SoaGainReductionPowerLimiter CH 1	Float	4	R	Reads the SoaGainReductionPowerLimiter for Channel 1
0x0000bb54 (47956)	SoaGainReductionPowerLimiter CH 2	Float	4	R	Reads the SoaGainReductionPowerLimiter for Channel 2
0x0000bb58 (47960)	SoaGainReductionPowerLimiter CH 3	Float	4	R	Reads the SoaGainReductionPowerLimiter for Channel 3
0x0000bb5c (47964)	SoaGainReductionPowerLimiter CH 4	Float	4	R	Reads the SoaGainReductionPowerLimiter for Channel 4

## FastMeter Ways UserGainReductionVoltageLimiterPeak

Reads the UserGainReductionVoltageLimiterPeak

Offset	Name	Type	Dim	R \ W	Description
0x0000bb60 (47968)	UserGainReductionVoltageLimiterPeak CH 1	Float	4	R	Reads the UserGainReductionVoltageLimiterPeak for Channel 1
0x0000bb64 (47972)	UserGainReductionVoltageLimiterPeak CH 2	Float	4	R	Reads the UserGainReductionVoltageLimiterPeak for Channel 2
0x0000bb68 (47976)	UserGainReductionVoltageLimiterPeak CH 3	Float	4	R	Reads the UserGainReductionVoltageLimiterPeak for Channel 3
0x0000bb6c (47980)	UserGainReductionVoltageLimiterPeak CH 4	Float	4	R	Reads the UserGainReductionVoltageLimiterPeak for Channel 4

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
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## FastMeter Ways UserGainReductionVoltageLimiterRms

Reads the UserGainReductionVoltageLimiterRms

Offset	Name	Type	Dim	R \ W	Description
0x0000bb70 (47984)	UserGainReductionVoltageLimiterRms CH 1	Float	4	R	Reads the UserGainReductionVoltageLimiterRms for Channel 1
0x0000bb74 (47988)	UserGainReductionVoltageLimiterRms CH 2	Float	4	R	Reads the UserGainReductionVoltageLimiterRms for Channel 2
0x0000bb78 (47992)	UserGainReductionVoltageLimiterRms CH 3	Float	4	R	Reads the UserGainReductionVoltageLimiterRms for Channel 3
0x0000bb7c (47996)	UserGainReductionVoltageLimiterRms CH 4	Float	4	R	Reads the UserGainReductionVoltageLimiterRms for Channel 4

## FastMeter Ways UserGainReductionClipLimiter

Reads the UserGainReductionClipLimiter

Offset	Name	Type	Dim	R \ W	Description
0x0000bb80 (48000)	UserGainReductionClipLimiter CH 1	Float	4	R	Reads the UserGainReductionClipLimiter for Channel 1
0x0000bb84 (48004)	UserGainReductionClipLimiter CH 2	Float	4	R	Reads the UserGainReductionClipLimiter for Channel 2
0x0000bb88 (48008)	UserGainReductionClipLimiter CH 3	Float	4	R	Reads the UserGainReductionClipLimiter for Channel 3
0x0000bb8c (48012)	UserGainReductionClipLimiter CH 4	Float	4	R	Reads the UserGainReductionClipLimiter for Channel 4

## FastMeter Ways UserGainReductionTotal

Reads the UserGainReductionTotal

Offset	Name	Type	Dim	R \ W	Description
0x0000bb90 (48016)	UserGainReductionTotal CH 1	Float	4	R	Reads the UserGainReductionTotal for Channel 1
0x0000bb94 (48020)	UserGainReductionTotal CH 2	Float	4	R	Reads the UserGainReductionTotal for Channel 2
0x0000bb98 (48024)	UserGainReductionTotal CH 3	Float	4	R	Reads the UserGainReductionTotal for Channel 3
0x0000bb9c (48028)	UserGainReductionTotal CH 4	Float	4	R	Reads the UserGainReductionTotal for Channel 4

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## FastMeter Ways SignalPresence

Reads the SignalPresence

Offset	Name	Type	Dim	R \ W	Description
0x0000bba0 (48032)	SignalPresence CH 1	uint8	1	R	Reads the SignalPresence for Channel 1
0x0000bba1 (48033)	SignalPresence CH 2	uint8	1	R	Reads the SignalPresence for Channel 2
0x0000bba2 (48034)	SignalPresence CH 3	uint8	1	R	Reads the SignalPresence for Channel 3
0x0000bba3 (48035)	SignalPresence CH 4	uint8	1	R	Reads the SignalPresence for Channel 4

## FastMeter Ways Headroom

Reads the Headroom

Offset	Name	Type	Dim	R \ W	Description
0x0000bba8 (48040)	Headroom CH 1	Float	4	R	Reads the Headroom for Channel 1
0x0000bbac (48044)	Headroom CH 2	Float	4	R	Reads the Headroom for Channel 2
0x0000bbb0 (48048)	Headroom CH 3	Float	4	R	Reads the Headroom for Channel 3
0x0000bbb4 (48052)	Headroom CH 4	Float	4	R	Reads the Headroom for Channel 4

## FastMeter PowerSupply

This area contains the PowerSupply fast meters.

Offset	Name	Type	Dim	R \ W	Description
0x0000bbb8 (48056)	SoaGainReductionPowerLimiter	Float	4	R	Reads the SoaGainReductionPowerLimiter
0x0000bbbc (48060)	SoaGainReductionTempTrLimiter	Float	4	R	Reads the SoaGainReductionTempTrLimiter
0x0000bbc0 (48064)	SoaGainReductionTempHSLimiter	Float	4	R	Reads the SoaGainReductionTempHSLimiter Heat Sink

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## AutoSetup

This area contains informations related to the autosetup.

BlockId	Start Address	End Address	Description
<a href="#">AutoSetup Parameters Way 1</a>	0x0000c000	0x0000c00c	This area contains informations related to the autosetup.
<a href="#">AutoSetup Parameters Way 2</a>	0x0000c00c	0x0000c018	This area contains informations related to the autosetup.
<a href="#">AutoSetup Parameters Way 3</a>	0x0000c018	0x0000c024	This area contains informations related to the autosetup.
<a href="#">AutoSetup Parameters Way 4</a>	0x0000c024	0x0000c030	This area contains informations related to the autosetup.
<a href="#">AutoSetup Results Way 1</a>	0x0000c100	0x0000c79c	This area contains informations related to result.
<a href="#">AutoSetup Results Way 2</a>	0x0000c79c	0x0000ce38	This area contains informations related to result.
<a href="#">AutoSetup Results Way 3</a>	0x0000ce38	0x0000d4d4	This area contains informations related to result.
<a href="#">AutoSetup Results Way 4</a>	0x0000d4d4	0x0000db70	This area contains informations related to result.
<a href="#">AutoSetup Start</a>	0x0000ef00	0x0000ef04	This area contains informations related to result.

## AutoSetup Parameters Way 1

This area contains informations related to the autosetup.

Offset	Name	Type	Dim	R \ W	Description
0x0000c000 (49152)	AutoSetup flag Parameter Way 1	uint32	4	R\W	AutoSetup bitwise flags: LSB flag is used for `apply` autosetup computed parameters.
0x0000c004 (49156)	Speaker Voltage Way 1	uint32	4	R\W	AutoSetup speaker voltage
0x0000c008 (49160)	Sensitivity 1	float	4	R\W	AutoSetup sensitivity

## AutoSetup Parameters Way 2

This area contains informations related to the autosetup.

Offset	Name	Type	Dim	R \ W	Description
0x0000c00c (49164)	AutoSetup flag Parameter Way 2	uint32	4	R\W	AutoSetup bitwise flags: LSB flag is used for `apply` autosetup computed parameters.
0x0000c010 (49168)	Speaker Voltage Way 2	uint32	4	R\W	AutoSetup speaker voltage
0x0000c014 (49172)	Sensitivity 2	float	4	R\W	AutoSetup sensitivity

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## AutoSetup Parameters Way 3

This area contains informations related to the autosetup.

Offset	Name	Type	Dim	R \ W	Description
0x0000c018 (49176)	AutoSetup flag Parameter Way 3	uint32	4	R\W	AutoSetup bitwise flags: LSB flag is used for 'apply' autosetup computed parameters.
0x0000c01c (49180)	Speaker Voltage Way 3	uint32	4	R\W	AutoSetup speaker voltage
0x0000c020 (49184)	Sensitivity 3	float	4	R\W	AutoSetup sensitivity

## AutoSetup Parameters Way 4

This area contains informations related to the autosetup.

Offset	Name	Type	Dim	R \ W	Description
0x0000c024 (49188)	AutoSetup flag Parameter Way 4	uint32	4	R\W	AutoSetup bitwise flags: LSB flag is used for 'apply' autosetup computed parameters.
0x0000c028 (49192)	Speaker Voltage Way 4	uint32	4	R\W	AutoSetup speaker voltage
0x0000c02c (49196)	Sensitivity 4	float	4	R\W	AutoSetup sensitivity

## AutoSetup Results Way 1

This area contains informations related to result.

BlockId	Start Address	End Address	Description
<a href="#">AutoSetup Settings Result</a>	0x0000c100	0x0000c134	AutoSetup Settings Result
<a href="#">AutoSetup Impedance Result</a>	0x0000c134	0x0000c79c	AutoSetup Impedance Result

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

[sales@powersoft.it](mailto:sales@powersoft.it)  
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## AutoSetup Settings Result

AutoSetup Settings Result

Offset	Name	Type	Dim	R \ W	Description
0x0000c100 (49408)	AutoSetup impMeasChannelDone 1	uint32	4	R\W	AutoSetup impMeasChannelDone
0x0000c104 (49412)	AutoSetup stateResult 1	uint32	4	R\W	AutoSetup stateResult
0x0000c108 (49416)	AutoSetup gain 1	float	4	R\W	AutoSetup gain
0x0000c10c (49420)	AutoSetup hiPassFc 1	float	4	R\W	AutoSetup hiPassFc
0x0000c110 (49424)	AutoSetup hiPass Slope 1	uint32	4	R\W	AutoSetup hiPass Slope
0x0000c114 (49428)	AutoSetup hiPass type 1	uint32	4	R\W	AutoSetup hiPass type
0x0000c118 (49432)	AutoSetup zNom 1	float	4	R\W	AutoSetup zNom
0x0000c11c (49436)	AutoSetup peakLimiterThr 1	float	4	R\W	AutoSetup peakLimiterThr
0x0000c120 (49440)	AutoSetup peakLimiterAttackTime 1	float	4	R\W	AutoSetup peakLimiterAttackTime
0x0000c124 (49444)	AutoSetup peakLimiterReleaseTime 1	float	4	R\W	AutoSetup peakLimiterReleaseTime
0x0000c128 (49448)	AutoSetup rmsLimiterThr 1	float	4	R\W	AutoSetup rmsLimiterThr
0x0000c12c (49452)	AutoSetup rmsLimiterAttackTime 1	float	4	R\W	AutoSetup rmsLimiterAttackTime
0x0000c130 (49456)	AutoSetup rmsLimiterReleaseTime 1	float	4	R\W	AutoSetup rmsLimiterReleaseTime

## AutoSetup Impedance Result

AutoSetup Impedance Result

Offset	Name	Type	Dim	R \ W	Description
0x0000c134 (49460)	AutoSetup Impedance Channel	uint32	4	R\W	AutoSetup Impedance Channel
0x0000c138 (49464)	AutoSetup Impedance NumFreq	uint32	4	R\W	AutoSetup Impedance NumFreq
0x0000c13c (49468)	AutoSetup Impedance Freq	float[136]	544	R\W	AutoSetup Impedance Freq
0x0000c35c (50012)	AutoSetup Impedance Z	complex_t[136]	1088	R\W	AutoSetup Impedance Z

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## AutoSetup Results Way 2

This area contains informations related to result.

BlockId	Start Address	End Address	Description
<a href="#">AutoSetup Settings Result</a>	0x0000c79c	0x0000c7d0	AutoSetup Settings Result
<a href="#">AutoSetup Impedance Result</a>	0x0000c7d0	0x0000ce38	AutoSetup Impedance Result

## AutoSetup Settings Result

AutoSetup Settings Result

Offset	Name	Type	Dim	R \ W	Description
0x0000c79c (51100)	AutoSetup impMeasChannelDone 1	uint32	4	R\W	AutoSetup impMeasChannelDone
0x0000c7a0 (51104)	AutoSetup stateResult 1	uint32	4	R\W	AutoSetup stateResult
0x0000c7a4 (51108)	AutoSetup gain 1	float	4	R\W	AutoSetup gain
0x0000c7a8 (51112)	AutoSetup hiPassFc 1	float	4	R\W	AutoSetup hiPassFc
0x0000c7ac (51116)	AutoSetup hiPass Slope 1	uint32	4	R\W	AutoSetup hiPass Slope
0x0000c7b0 (51120)	AutoSetup hiPass type 1	uint32	4	R\W	AutoSetup hiPass type
0x0000c7b4 (51124)	AutoSetup zNom 1	float	4	R\W	AutoSetup zNom
0x0000c7b8 (51128)	AutoSetup peakLimiterThr 1	float	4	R\W	AutoSetup peakLimiterThr
0x0000c7bc (51132)	AutoSetup peakLimiterAttackTime 1	float	4	R\W	AutoSetup peakLimiterAttackTime
0x0000c7c0 (51136)	AutoSetup peakLimiterReleaseTime 1	float	4	R\W	AutoSetup peakLimiterReleaseTime
0x0000c7c4 (51140)	AutoSetup rmsLimiterThr 1	float	4	R\W	AutoSetup rmsLimiterThr
0x0000c7c8 (51144)	AutoSetup rmsLimiterAttackTime 1	float	4	R\W	AutoSetup rmsLimiterAttackTime
0x0000c7cc (51148)	AutoSetup rmsLimiterReleaseTime 1	float	4	R\W	AutoSetup rmsLimiterReleaseTime

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com



## AutoSetup Impedance Result

AutoSetup Impedance Result

Offset	Name	Type	Dim	R \ W	Description
0x0000c7d0 (51152)	AutoSetup Impedance Channel	uint32	4	R\W	AutoSetup Impedance Channel
0x0000c7d4 (51156)	AutoSetup Impedance NumFreq	uint32	4	R\W	AutoSetup Impedance NumFreq
0x0000c7d8 (51160)	AutoSetup Impedance Freq	float[136]	544	R\W	AutoSetup Impedance Freq
0x0000c9f8 (51704)	AutoSetup Impedance Z	complex_t[136]	1088	R\W	AutoSetup Impedance Z

## AutoSetup Results Way 3

This area contains informations related to result.

BlockId	Start Address	End Address	Description
<a href="#">AutoSetup Settings Result</a>	0x0000ce38	0x0000ce6c	AutoSetup Settings Result
<a href="#">AutoSetup Impedance Result</a>	0x0000ce6c	0x0000d4d4	AutoSetup Impedance Result

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## AutoSetup Settings Result

AutoSetup Settings Result

Offset	Name	Type	Dim	R \ W	Description
0x0000ce38 (52792)	AutoSetup impMeasChannelDone 1	uint32	4	R\W	AutoSetup impMeasChannelDone
0x0000ce3c (52796)	AutoSetup stateResult 1	uint32	4	R\W	AutoSetup stateResult
0x0000ce40 (52800)	AutoSetup gain 1	float	4	R\W	AutoSetup gain
0x0000ce44 (52804)	AutoSetup hiPassFc 1	float	4	R\W	AutoSetup hiPassFc
0x0000ce48 (52808)	AutoSetup hiPass Slope 1	uint32	4	R\W	AutoSetup hiPass Slope
0x0000ce4c (52812)	AutoSetup hiPass type 1	uint32	4	R\W	AutoSetup hiPass type
0x0000ce50 (52816)	AutoSetup zNom 1	float	4	R\W	AutoSetup zNom
0x0000ce54 (52820)	AutoSetup peakLimiterThr 1	float	4	R\W	AutoSetup peakLimiterThr
0x0000ce58 (52824)	AutoSetup peakLimiterAttackTime 1	float	4	R\W	AutoSetup peakLimiterAttackTime
0x0000ce5c (52828)	AutoSetup peakLimiterReleaseTime 1	float	4	R\W	AutoSetup peakLimiterReleaseTime
0x0000ce60 (52832)	AutoSetup rmsLimiterThr 1	float	4	R\W	AutoSetup rmsLimiterThr
0x0000ce64 (52836)	AutoSetup rmsLimiterAttackTime 1	float	4	R\W	AutoSetup rmsLimiterAttackTime
0x0000ce68 (52840)	AutoSetup rmsLimiterReleaseTime 1	float	4	R\W	AutoSetup rmsLimiterReleaseTime

## AutoSetup Impedance Result

AutoSetup Impedance Result

Offset	Name	Type	Dim	R \ W	Description
0x0000ce6c (52844)	AutoSetup Impedance Channel	uint32	4	R\W	AutoSetup Impedance Channel
0x0000ce70 (52848)	AutoSetup Impedance NumFreq	uint32	4	R\W	AutoSetup Impedance NumFreq
0x0000ce74 (52852)	AutoSetup Impedance Freq	float[136]	544	R\W	AutoSetup Impedance Freq
0x0000d094 (53396)	AutoSetup Impedance Z	complex_t[136]	1088	R\W	AutoSetup Impedance Z

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## AutoSetup Results Way 4

This area contains informations related to result.

BlockId	Start Address	End Address	Description
<a href="#">AutoSetup Settings Result</a>	0x0000d4d4	0x0000d508	AutoSetup Settings Result
<a href="#">AutoSetup Impedance Result</a>	0x0000d508	0x0000db70	AutoSetup Impedance Result

## AutoSetup Settings Result

AutoSetup Settings Result

Offset	Name	Type	Dim	R \ W	Description
0x0000d4d4 (54484)	AutoSetup impMeasChannelDone 1	uint32	4	R\W	AutoSetup impMeasChannelDone
0x0000d4d8 (54488)	AutoSetup stateResult 1	uint32	4	R\W	AutoSetup stateResult
0x0000d4dc (54492)	AutoSetup gain 1	float	4	R\W	AutoSetup gain
0x0000d4e0 (54496)	AutoSetup hiPassFc 1	float	4	R\W	AutoSetup hiPassFc
0x0000d4e4 (54500)	AutoSetup hiPass Slope 1	uint32	4	R\W	AutoSetup hiPass Slope
0x0000d4e8 (54504)	AutoSetup hiPass type 1	uint32	4	R\W	AutoSetup hiPass type
0x0000d4ec (54508)	AutoSetup zNom 1	float	4	R\W	AutoSetup zNom
0x0000d4f0 (54512)	AutoSetup peakLimiterThr 1	float	4	R\W	AutoSetup peakLimiterThr
0x0000d4f4 (54516)	AutoSetup peakLimiterAttackTime 1	float	4	R\W	AutoSetup peakLimiterAttackTime
0x0000d4f8 (54520)	AutoSetup peakLimiterReleaseTime 1	float	4	R\W	AutoSetup peakLimiterReleaseTime
0x0000d4fc (54524)	AutoSetup rmsLimiterThr 1	float	4	R\W	AutoSetup rmsLimiterThr
0x0000d500 (54528)	AutoSetup rmsLimiterAttackTime 1	float	4	R\W	AutoSetup rmsLimiterAttackTime
0x0000d504 (54532)	AutoSetup rmsLimiterReleaseTime 1	float	4	R\W	AutoSetup rmsLimiterReleaseTime

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## AutoSetup Impedance Result

AutoSetup Impedance Result

Offset	Name	Type	Dim	R \ W	Description
0x0000d508 (54536)	AutoSetup Impedance Channel	uint32	4	R\W	AutoSetup Impedance Channel
0x0000d50c (54540)	AutoSetup Impedance NumFreq	uint32	4	R\W	AutoSetup Impedance NumFreq
0x0000d510 (54544)	AutoSetup Impedance Freq	float[136]	544	R\W	AutoSetup Impedance Freq
0x0000d730 (55088)	AutoSetup Impedance Z	complex_t[136]	1088	R\W	AutoSetup Impedance Z

## AutoSetup Start

This area contains informations related to result.

Offset	Name	Type	Dim	R \ W	Description
0x0000ef00 (61184)	AutoSetup Start on channel	uint32	4	R\W	Write here the channel where init the AutoSetup -> eg: '0'   '1'   '2'   '3'

## Zone Block

This area contains informations related to the amplifiers zones.

BlockId	Start Address	End Address	Description
<a href="#">Zone Common Settings</a>	0x0000f000	0x0000f038	This area contains the zone block common settings.
<a href="#">Zone EQ</a>	0x0000f100	0x0000f340	This area contains the zone eq settings.

## Zone Common Settings

This area contains the zone block common settings.

BlockId	Start Address	End Address	Description
<a href="#">Enable</a>	0x0000f000	0x0000f004	The zone enable.
<a href="#">Mute</a>	0x0000f004	0x0000f008	The zone mute.
<a href="#">Gain</a>	0x0000f008	0x0000f018	The zone gain in linear.
<a href="#">Source GUID</a>	0x0000f018	0x0000f028	The zone source GUID.
<a href="#">Zone GUID</a>	0x0000f028	0x0000f038	The zone GUID.

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Enable

The zone enable.

Offset	Name	Type	Dim	R \ W	Description
0x0000f000 (61440)	Zone Enable 1	uint8	1	R\W	The zone enable CH 1.
0x0000f001 (61441)	Zone Enable 2	uint8	1	R\W	The zone enable CH 2.
0x0000f002 (61442)	Zone Enable 3	uint8	1	R\W	The zone enable CH 3.
0x0000f003 (61443)	Zone Enable 4	uint8	1	R\W	The zone enable CH 4.

## Mute

The zone mute.

Offset	Name	Type	Dim	R \ W	Description
0x0000f004 (61444)	Zone Mute 1	uint8	1	R\W	The zone mute CH 1.
0x0000f005 (61445)	Zone Mute 2	uint8	1	R\W	The zone mute CH 2.
0x0000f006 (61446)	Zone Mute 3	uint8	1	R\W	The zone mute CH 3.
0x0000f007 (61447)	Zone Mute 4	uint8	1	R\W	The zone mute CH 4.

## Gain

The zone gain in linear.

Offset	Name	Type	Dim	R \ W	Description
0x0000f008 (61448)	Zone Gain 1	Float	4	R\W	The zone gain in linear CH 1.
0x0000f00c (61452)	Zone Gain 2	Float	4	R\W	The zone gain in linear CH 2.
0x0000f010 (61456)	Zone Gain 3	Float	4	R\W	The zone gain in linear CH 3.
0x0000f014 (61460)	Zone Gain 4	Float	4	R\W	The zone gain in linear CH 4.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Source GUID

The zone source GUID.

Offset	Name	Type	Dim	R \ W	Description
0x0000f018 (61464)	Source GUID 1	uint32	4	R\W	The source GUID CH 1.
0x0000f01c (61468)	Source GUID 2	uint32	4	R\W	The source GUID CH 2.
0x0000f020 (61472)	Source GUID 3	uint32	4	R\W	The source GUID CH 3.
0x0000f024 (61476)	Source GUID 4	uint32	4	R\W	The source GUID CH 4.

## Zone GUID

The zone GUID.

Offset	Name	Type	Dim	R \ W	Description
0x0000f028 (61480)	Zone GUID 1	uint32	4	R\W	The zone GUID CH 1.
0x0000f02c (61484)	Zone GUID 2	uint32	4	R\W	The zone GUID CH 2.
0x0000f030 (61488)	Zone GUID 3	uint32	4	R\W	The zone GUID CH 3.
0x0000f034 (61492)	Zone GUID 4	uint32	4	R\W	The zone GUID CH 4.

## Zone EQ

This area contains the zone eq settings.

BlockId	Start Address	End Address	Description
<a href="#">Source EQ Channel 1</a>	0x0000f100	0x0000f130	This area contains the source eq settings.
<a href="#">Source EQ Channel 2</a>	0x0000f130	0x0000f160	This area contains the source eq settings.
<a href="#">Source EQ Channel 3</a>	0x0000f160	0x0000f190	This area contains the source eq settings.
<a href="#">Source EQ Channel 4</a>	0x0000f190	0x0000f1c0	This area contains the source eq settings.
<a href="#">Zone EQ Channel 1</a>	0x0000f1c0	0x0000f220	This area contains the zone eq settings.
<a href="#">Zone EQ Channel 2</a>	0x0000f220	0x0000f280	This area contains the zone eq settings.
<a href="#">Zone EQ Channel 3</a>	0x0000f280	0x0000f2e0	This area contains the zone eq settings.
<a href="#">Zone EQ Channel 4</a>	0x0000f2e0	0x0000f340	This area contains the zone eq settings.

## Source EQ Channel 1

This area contains the source eq settings.

BlockId	Start Address	End Address	Description
<a href="#">Source Eq Channel 1 BiQuad 1 settings</a>	0x0000f100	0x0000f118	This area contains the source equalizer biQuad settings.
<a href="#">Source Eq Channel 1 BiQuad 2 settings</a>	0x0000f118	0x0000f130	This area contains the source equalizer biQuad settings.

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Source Eq Channel 1 BiQuad 1 settings

This area contains the source equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f100 (61696)	Enabled	uint32	4	RW	The enable flag																		
0x0000f104 (61700)	Type	uint32	4	RW	The filter type. Valid values are: <table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
						Values	Type																
						0	Peaking																
						11	Low-Shelving																
						12	High-Shelving																
						13	Low-pass																
						14	High-pass																
						15	BandPass																
						16	Band-stop																
17	All-pass																						
0x0000f108 (61704)	Q	Float	4	RW	The filter Q																		
0x0000f10c (61708)	Slope	Float	4	RW	The filter Slope																		
0x0000f110 (61712)	Frequency	uint32	4	RW	The filter frequency																		
0x0000f114 (61716)	Gain	Float	4	RW	The linear gain																		

## Source Eq Channel 1 BiQuad 2 settings

This area contains the source equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																			
0x0000f118 (61720)	Enabled	uint32	4	R\W	The enable flag																			
0x0000f11c (61724)	Type	uint32	4	R\W	The filter type. Valid values are:																			
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>		Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
					Values	Type																		
					0	Peaking																		
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					14	High-pass																		
					15	BandPass																		
16	Band-stop																							
17	All-pass																							
0x0000f120 (61728)	Q	Float	4	R\W	The filter Q																			
0x0000f124 (61732)	Slope	Float	4	R\W	The filter Slope																			
0x0000f128 (61736)	Frequency	uint32	4	R\W	The filter frequency																			
0x0000f12c (61740)	Gain	Float	4	R\W	The linear gain																			

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Source EQ Channel 2

This area contains the source eq settings.

BlockId	Start Address	End Address	Description
<a href="#">Source Eq Channel 2 BiQuad 1 settings</a>	0x0000f130	0x0000f148	This area contains the source equalizer biQuad settings.
<a href="#">Source Eq Channel 2 BiQuad 2 settings</a>	0x0000f148	0x0000f160	This area contains the source equalizer biQuad settings.

## Source Eq Channel 2 BiQuad 1 settings

This area contains the source equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f130 (61744)	Enabled	uint32	4	RW	The enable flag																		
0x0000f134 (61748)	Type	uint32	4	RW	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
					Values	Type																	
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					14	High-pass																	
					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x0000f138 (61752)	Q	Float	4	RW	The filter Q																		
0x0000f13c (61756)	Slope	Float	4	RW	The filter Slope																		
0x0000f140 (61760)	Frequency	uint32	4	RW	The filter frequency																		
0x0000f144 (61764)	Gain	Float	4	RW	The linear gain																		

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
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## Source Eq Channel 2 BiQuad 2 settings

This area contains the source equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f148 (61768)	Enabled	uint32	4	RW	The enable flag																		
0x0000f14c (61772)	Type	uint32	4	RW	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
					Values	Type																	
					0	Peaking																	
					11	Low-Shelving																	
					12	High-Shelving																	
					13	Low-pass																	
					14	High-pass																	
					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x0000f150 (61776)	Q	Float	4	RW	The filter Q																		
0x0000f154 (61780)	Slope	Float	4	RW	The filter Slope																		
0x0000f158 (61784)	Frequency	uint32	4	RW	The filter frequency																		
0x0000f15c (61788)	Gain	Float	4	RW	The linear gain																		

## Source EQ Channel 3

This area contains the source eq settings.

BlockId	Start Address	End Address	Description
<a href="#">Source Eq Channel 3 BiQuad 1 settings</a>	0x0000f160	0x0000f178	This area contains the source equalizer biQuad settings.
<a href="#">Source Eq Channel 3 BiQuad 2 settings</a>	0x0000f178	0x0000f190	This area contains the source equalizer biQuad settings.

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Source Eq Channel 3 BiQuad 1 settings

This area contains the source equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f160 (61792)	Enabled	uint32	4	RW	The enable flag																		
0x0000f164 (61796)	Type	uint32	4	RW	The filter type. Valid values are: <table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
					Values	Type																	
					0	Peaking																	
					11	Low-Shelving																	
					12	High-Shelving																	
					13	Low-pass																	
					14	High-pass																	
					15	BandPass																	
					16	Band-stop																	
17	All-pass																						
0x0000f168 (61800)	Q	Float	4	RW	The filter Q																		
0x0000f16c (61804)	Slope	Float	4	RW	The filter Slope																		
0x0000f170 (61808)	Frequency	uint32	4	RW	The filter frequency																		
0x0000f174 (61812)	Gain	Float	4	RW	The linear gain																		

## Source Eq Channel 3 BiQuad 2 settings

This area contains the source equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																			
0x0000f178 (61816)	Enabled	uint32	4	R\W	The enable flag																			
0x0000f17c (61820)	Type	uint32	4	R\W	The filter type. Valid values are:																			
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>		Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
					Values	Type																		
					0	Peaking																		
					11	Low-Shelving																		
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					13	Low-pass																		
					14	High-pass																		
					15	BandPass																		
16	Band-stop																							
17	All-pass																							
0x0000f180 (61824)	Q	Float	4	R\W	The filter Q																			
0x0000f184 (61828)	Slope	Float	4	R\W	The filter Slope																			
0x0000f188 (61832)	Frequency	uint32	4	R\W	The filter frequency																			
0x0000f18c (61836)	Gain	Float	4	R\W	The linear gain																			

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Source EQ Channel 4

This area contains the source eq settings.

BlockId	Start Address	End Address	Description
<a href="#">Source Eq Channel 4 BiQuad 1 settings</a>	0x0000f190	0x0000f1a8	This area contains the source equalizer biQuad settings.
<a href="#">Source Eq Channel 4 BiQuad 2 settings</a>	0x0000f1a8	0x0000f1c0	This area contains the source equalizer biQuad settings.

## Source Eq Channel 4 BiQuad 1 settings

This area contains the source equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f190 (61840)	Enabled	uint32	4	RW	The enable flag																		
0x0000f194 (61844)	Type	uint32	4	RW	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					13	Low-pass																	
					14	High-pass																	
					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x0000f198 (61848)	Q	Float	4	RW	The filter Q																		
0x0000f19c (61852)	Slope	Float	4	RW	The filter Slope																		
0x0000f1a0 (61856)	Frequency	uint32	4	RW	The filter frequency																		
0x0000f1a4 (61860)	Gain	Float	4	RW	The linear gain																		

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Source Eq Channel 4 BiQuad 2 settings

This area contains the source equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f1a8 (61864)	Enabled	uint32	4	RW	The enable flag																		
0x0000f1ac (61868)	Type	uint32	4	RW	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					13	Low-pass																	
					14	High-pass																	
					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x0000f1b0 (61872)	Q	Float	4	RW	The filter Q																		
0x0000f1b4 (61876)	Slope	Float	4	RW	The filter Slope																		
0x0000f1b8 (61880)	Frequency	uint32	4	RW	The filter frequency																		
0x0000f1bc (61884)	Gain	Float	4	RW	The linear gain																		

## Zone EQ Channel 1

This area contains the zone eq settings.

BlockId	Start Address	End Address	Description
<a href="#">Zone Eq Channel 1 BiQuad 1 settings</a>	0x0000f1c0	0x0000f1d8	This area contains the zone equalizer biQuad settings.
<a href="#">Zone Eq Channel 1 BiQuad 2 settings</a>	0x0000f1d8	0x0000f1f0	This area contains the zone equalizer biQuad settings.
<a href="#">Zone Eq Channel 1 BiQuad 3 settings</a>	0x0000f1f0	0x0000f208	This area contains the zone equalizer biQuad settings.
<a href="#">Zone Eq Channel 1 BiQuad 4 settings</a>	0x0000f208	0x0000f220	This area contains the zone equalizer biQuad settings.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
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## Zone Eq Channel 1 BiQuad 1 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f1c0 (61888)	Enabled	uint32	4	RW	The enable flag																		
0x0000f1c4 (61892)	Type	uint32	4	RW	<div>The filter type. Valid values are:<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table></div>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
Values	Type																						
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12	High-Shelving																						
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14	High-pass																						
15	BandPass																						
16	Band-stop																						
17	All-pass																						
0x0000f1c8 (61896)	Q	Float	4	RW	The filter Q																		
0x0000f1cc (61900)	Slope	Float	4	RW	The filter Slope																		
0x0000f1d0 (61904)	Frequency	uint32	4	RW	The filter frequency																		
0x0000f1d4 (61908)	Gain	Float	4	RW	The linear gain																		

## Zone Eq Channel 1 BiQuad 2 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f1d8 (61912)	Enabled	uint32	4	R\W	The enable flag																		
0x0000f1dc (61916)	Type	uint32	4	R\W	<div>The filter type. Valid values are:<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table></div>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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15	BandPass																						
16	Band-stop																						
17	All-pass																						
0x0000f1e0 (61920)	Q	Float	4	R\W	The filter Q																		
0x0000f1e4 (61924)	Slope	Float	4	R\W	The filter Slope																		
0x0000f1e8 (61928)	Frequency	uint32	4	R\W	The filter frequency																		
0x0000f1ec (61932)	Gain	Float	4	R\W	The linear gain																		

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50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
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## Zone Eq Channel 1 BiQuad 3 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																			
0x0000f1f0 (61936)	Enabled	uint32	4	RW	The enable flag																			
0x0000f1f4 (61940)	Type	uint32	4	RW	The filter type. Valid values are:																			
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>		Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					14	High-pass																		
					15	BandPass																		
16	Band-stop																							
17	All-pass																							
0x0000f1f8 (61944)	Q	Float	4	RW	The filter Q																			
0x0000f1fc (61948)	Slope	Float	4	RW	The filter Slope																			
0x0000f200 (61952)	Frequency	uint32	4	RW	The filter frequency																			
0x0000f204 (61956)	Gain	Float	4	RW	The linear gain																			

## Zone Eq Channel 1 BiQuad 4 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																			
0x0000f208 (61960)	Enabled	uint32	4	R\W	The enable flag																			
0x0000f20c (61964)	Type	uint32	4	R\W	The filter type. Valid values are:																			
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>		Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					14	High-pass																		
					15	BandPass																		
16	Band-stop																							
17	All-pass																							
0x0000f210 (61968)	Q	Float	4	R\W	The filter Q																			
0x0000f214 (61972)	Slope	Float	4	R\W	The filter Slope																			
0x0000f218 (61976)	Frequency	uint32	4	R\W	The filter frequency																			
0x0000f21c (61980)	Gain	Float	4	R\W	The linear gain																			

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
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## Zone EQ Channel 2

This area contains the zone eq settings.

BlockId	Start Address	End Address	Description
<a href="#">Zone Eq Channel 2 BiQuad 1 settings</a>	0x0000f220	0x0000f238	This area contains the zone equalizer biQuad settings.
<a href="#">Zone Eq Channel 2 BiQuad 2 settings</a>	0x0000f238	0x0000f250	This area contains the zone equalizer biQuad settings.
<a href="#">Zone Eq Channel 2 BiQuad 3 settings</a>	0x0000f250	0x0000f268	This area contains the zone equalizer biQuad settings.
<a href="#">Zone Eq Channel 2 BiQuad 4 settings</a>	0x0000f268	0x0000f280	This area contains the zone equalizer biQuad settings.

## Zone Eq Channel 2 BiQuad 1 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f220 (61984)	Enabled	uint32	4	RW	The enable flag																		
0x0000f224 (61988)	Type	uint32	4	RW	<div>The filter type. Valid values are:<table><thead><tr><th>Values</th><th>Type</th></tr></thead><tbody><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></tbody></table></div>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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13	Low-pass																						
14	High-pass																						
15	BandPass																						
16	Band-stop																						
17	All-pass																						
0x0000f228 (61992)	Q	Float	4	RW	The filter Q																		
0x0000f22c (61996)	Slope	Float	4	RW	The filter Slope																		
0x0000f230 (62000)	Frequency	uint32	4	RW	The filter frequency																		
0x0000f234 (62004)	Gain	Float	4	RW	The linear gain																		

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Zone Eq Channel 2 BiQuad 2 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f238 (62008)	Enabled	uint32	4	RW	The enable flag																		
0x0000f23c (62012)	Type	uint32	4	RW	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					14	High-pass																	
					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x0000f240 (62016)	Q	Float	4	RW	The filter Q																		
0x0000f244 (62020)	Slope	Float	4	RW	The filter Slope																		
0x0000f248 (62024)	Frequency	uint32	4	RW	The filter frequency																		
0x0000f24c (62028)	Gain	Float	4	RW	The linear gain																		

## Zone Eq Channel 2 BiQuad 3 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																			
0x0000f250 (62032)	Enabled	uint32	4	R\W	The enable flag																			
0x0000f254 (62036)	Type	uint32	4	R\W	The filter type. Valid values are:																			
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>		Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					15	BandPass																		
16	Band-stop																							
17	All-pass																							
0x0000f258 (62040)	Q	Float	4	R\W	The filter Q																			
0x0000f25c (62044)	Slope	Float	4	R\W	The filter Slope																			
0x0000f260 (62048)	Frequency	uint32	4	R\W	The filter frequency																			
0x0000f264 (62052)	Gain	Float	4	R\W	The linear gain																			

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
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## Zone Eq Channel 2 BiQuad 4 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f268 (62056)	Enabled	uint32	4	RW	The enable flag																		
0x0000f26c (62060)	Type	uint32	4	RW	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					14	High-pass																	
					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x0000f270 (62064)	Q	Float	4	RW	The filter Q																		
0x0000f274 (62068)	Slope	Float	4	RW	The filter Slope																		
0x0000f278 (62072)	Frequency	uint32	4	RW	The filter frequency																		
0x0000f27c (62076)	Gain	Float	4	RW	The linear gain																		

## Zone EQ Channel 3

This area contains the zone eq settings.

BlockId	Start Address	End Address	Description
<a href="#">Zone Eq Channel 3 BiQuad 1 settings</a>	0x0000f280	0x0000f298	This area contains the zone equalizer biQuad settings.
<a href="#">Zone Eq Channel 3 BiQuad 2 settings</a>	0x0000f298	0x0000f2b0	This area contains the zone equalizer biQuad settings.
<a href="#">Zone Eq Channel 3 BiQuad 3 settings</a>	0x0000f2b0	0x0000f2c8	This area contains the zone equalizer biQuad settings.
<a href="#">Zone Eq Channel 3 BiQuad 4 settings</a>	0x0000f2c8	0x0000f2e0	This area contains the zone equalizer biQuad settings.

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50018 Scandicci, FI, Italy  
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### Warehouse

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50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Zone Eq Channel 3 BiQuad 1 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f280 (62080)	Enabled	uint32	4	RW	The enable flag																		
0x0000f284 (62084)	Type	uint32	4	RW	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x0000f288 (62088)	Q	Float	4	RW	The filter Q																		
0x0000f28c (62092)	Slope	Float	4	RW	The filter Slope																		
0x0000f290 (62096)	Frequency	uint32	4	RW	The filter frequency																		
0x0000f294 (62100)	Gain	Float	4	RW	The linear gain																		

## Zone Eq Channel 3 BiQuad 2 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																			
0x0000f298 (62104)	Enabled	uint32	4	R\W	The enable flag																			
0x0000f29c (62108)	Type	uint32	4	R\W	The filter type. Valid values are:																			
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>		Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
					Values	Type																		
					0	Peaking																		
					11	Low-Shelving																		
					12	High-Shelving																		
					13	Low-pass																		
					14	High-pass																		
					15	BandPass																		
16	Band-stop																							
17	All-pass																							
0x0000f2a0 (62112)	Q	Float	4	R\W	The filter Q																			
0x0000f2a4 (62116)	Slope	Float	4	R\W	The filter Slope																			
0x0000f2a8 (62120)	Frequency	uint32	4	R\W	The filter frequency																			
0x0000f2ac (62124)	Gain	Float	4	R\W	The linear gain																			

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Zone Eq Channel 3 BiQuad 3 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f2b0 (62128)	Enabled	uint32	4	R\W	The enable flag																		
0x0000f2b4 (62132)	Type	uint32	4	R\W	The filter type. Valid values are: <table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
					Values	Type																	
					0	Peaking																	
					11	Low-Shelving																	
					12	High-Shelving																	
					13	Low-pass																	
					14	High-pass																	
					15	BandPass																	
					16	Band-stop																	
17	All-pass																						
0x0000f2b8 (62136)	Q	Float	4	R\W	The filter Q																		
0x0000f2bc (62140)	Slope	Float	4	R\W	The filter Slope																		
0x0000f2c0 (62144)	Frequency	uint32	4	R\W	The filter frequency																		
0x0000f2c4 (62148)	Gain	Float	4	R\W	The linear gain																		

## Zone Eq Channel 3 BiQuad 4 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f2c8 (62152)	Enabled	uint32	4	R\W	The enable flag																		
0x0000f2cc (62156)	Type	uint32	4	R\W	The filter type. Valid values are: <table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					13	Low-pass																	
					14	High-pass																	
					15	BandPass																	
					16	Band-stop																	
17	All-pass																						
0x0000f2d0 (62160)	Q	Float	4	R\W	The filter Q																		
0x0000f2d4 (62164)	Slope	Float	4	R\W	The filter Slope																		
0x0000f2d8 (62168)	Frequency	uint32	4	R\W	The filter frequency																		
0x0000f2dc (62172)	Gain	Float	4	R\W	The linear gain																		

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Zone EQ Channel 4

This area contains the zone eq settings.

BlockId	Start Address	End Address	Description
<a href="#">Zone Eq Channel 4 BiQuad 1 settings</a>	0x0000f2e0	0x0000f2f8	This area contains the zone equalizer biQuad settings.
<a href="#">Zone Eq Channel 4 BiQuad 2 settings</a>	0x0000f2f8	0x0000f310	This area contains the zone equalizer biQuad settings.
<a href="#">Zone Eq Channel 4 BiQuad 3 settings</a>	0x0000f310	0x0000f328	This area contains the zone equalizer biQuad settings.
<a href="#">Zone Eq Channel 4 BiQuad 4 settings</a>	0x0000f328	0x0000f340	This area contains the zone equalizer biQuad settings.

## Zone Eq Channel 4 BiQuad 1 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f2e0 (62176)	Enabled	uint32	4	RW	The enable flag																		
0x0000f2e4 (62180)	Type	uint32	4	RW	<div>The filter type. Valid values are:<table><thead><tr><th>Values</th><th>Type</th></tr></thead><tbody><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></tbody></table></div>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
Values	Type																						
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11	Low-Shelving																						
12	High-Shelving																						
13	Low-pass																						
14	High-pass																						
15	BandPass																						
16	Band-stop																						
17	All-pass																						
0x0000f2e8 (62184)	Q	Float	4	RW	The filter Q																		
0x0000f2ec (62188)	Slope	Float	4	RW	The filter Slope																		
0x0000f2f0 (62192)	Frequency	uint32	4	RW	The filter frequency																		
0x0000f2f4 (62196)	Gain	Float	4	RW	The linear gain																		

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Zone Eq Channel 4 BiQuad 2 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f2f8 (62200)	Enabled	uint32	4	RW	The enable flag																		
0x0000f2fc (62204)	Type	uint32	4	RW	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
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					13	Low-pass																	
					14	High-pass																	
					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x0000f300 (62208)	Q	Float	4	RW	The filter Q																		
0x0000f304 (62212)	Slope	Float	4	RW	The filter Slope																		
0x0000f308 (62216)	Frequency	uint32	4	RW	The filter frequency																		
0x0000f30c (62220)	Gain	Float	4	RW	The linear gain																		

## Zone Eq Channel 4 BiQuad 3 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																			
0x0000f310 (62224)	Enabled	uint32	4	R\W	The enable flag																			
0x0000f314 (62228)	Type	uint32	4	R\W	The filter type. Valid values are:																			
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>		Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
					Values	Type																		
					0	Peaking																		
					11	Low-Shelving																		
					12	High-Shelving																		
					13	Low-pass																		
					14	High-pass																		
					15	BandPass																		
16	Band-stop																							
17	All-pass																							
0x0000f318 (62232)	Q	Float	4	R\W	The filter Q																			
0x0000f31c (62236)	Slope	Float	4	R\W	The filter Slope																			
0x0000f320 (62240)	Frequency	uint32	4	R\W	The filter frequency																			
0x0000f324 (62244)	Gain	Float	4	R\W	The linear gain																			

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Zone Eq Channel 4 BiQuad 4 settings

This area contains the zone equalizer biQuad settings.

Offset	Name	Type	Dim	R \ W	Description																		
0x0000f328 (62248)	Enabled	uint32	4	R\W	The enable flag																		
0x0000f32c (62252)	Type	uint32	4	R\W	The filter type. Valid values are:																		
					<table><tr><th>Values</th><th>Type</th></tr><tr><td>0</td><td>Peaking</td></tr><tr><td>11</td><td>Low-Shelving</td></tr><tr><td>12</td><td>High-Shelving</td></tr><tr><td>13</td><td>Low-pass</td></tr><tr><td>14</td><td>High-pass</td></tr><tr><td>15</td><td>BandPass</td></tr><tr><td>16</td><td>Band-stop</td></tr><tr><td>17</td><td>All-pass</td></tr></table>	Values	Type	0	Peaking	11	Low-Shelving	12	High-Shelving	13	Low-pass	14	High-pass	15	BandPass	16	Band-stop	17	All-pass
					Values	Type																	
					0	Peaking																	
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					12	High-Shelving																	
					13	Low-pass																	
					14	High-pass																	
					15	BandPass																	
16	Band-stop																						
17	All-pass																						
0x0000f330 (62256)	Q	Float	4	R\W	The filter Q																		
0x0000f334 (62260)	Slope	Float	4	R\W	The filter Slope																		
0x0000f338 (62264)	Frequency	uint32	4	R\W	The filter frequency																		
0x0000f33c (62268)	Gain	Float	4	R\W	The linear gain																		

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Dante Settings

This area contains UXT chip informations about status and settings. It includes as well available commands.

BlockId	Start Address	End Address	Description
<a href="#">General Info</a>	0x00010000	0x00010074	This area contains the general information about the Ultimo chip
<a href="#">Network Basic</a>	0x00010100	0x00010134	This area contains the information about current Network Settings
<a href="#">Model Manufacturer Info</a>	0x00010200	0x00010268	This area contains the information about Manufacturer
<a href="#">Audio Basic</a>	0x00010300	0x00010324	This area contains the information about Audio Basic Settings
<a href="#">Routing RX Channels Settings</a>	0x00010400	0x000106a0	This area contains the information about Routing RX Channels Settings
<a href="#">Routing TX Channels Settings</a>	0x00010800	0x00010980	This area contains the information about Routing TX Channels Settings
<a href="#">Device Identity</a>	0x00010a00	0x00010aa5	This area contains the information about Device Identity
<a href="#">Device SRate</a>	0x00010b00	0x00010b00	This area contains the information about Device SRate.
<a href="#">Device AES67</a>	0x00010c00	0x00010c00	This area contains the information about Device AES67.
<a href="#">Device Routing Performance</a>	0x00010d00	0x00010d00	This area contains the information about Device Routing Performance.
<a href="#">Device Lock Unlock</a>	0x00010e00	0x00010e00	This area contains the information about Device Lock Unlock.
<a href="#">Device Basic Clock</a>	0x00010f00	0x00010f00	This area contains the information about Device Basic Clock.
<a href="#">Device VLAN</a>	0x00011000	0x000110f8	This area contains the information about Device VLAN.
<a href="#">Device Switch Status</a>	0x00011200	0x0001122c	This area contains the information about Device Switch Status.
<a href="#">Set Dante Network</a>	0x00012000	0x0001200c	This command sets the IP, Netmask and Gateway for the UXT chip. To set DHCP, message field must be set to 0.
<a href="#">Set Dante ID</a>	0x00012010	0x00012030	This command sets the UXT chip friendly name.
<a href="#">Set Dante Tx Label</a>	0x00012030	0x00012052	This command sets the label for a specific Tx channel.
<a href="#">Dante Tapping</a>	0x00012060	0x000120a2	This command links a Rx channel to the specified Tx channel of a Tx device.
<a href="#">Dante Reboot</a>	0x000120b0	0x000120b1	This command reboots the UXT chip.

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## General Info

This area contains the general information about the Ultimo chip

Offset	Name	Type	Dim	R \ W	Description
0x00010000 (65536)	Time of Last Read	uint32	4	R	The number of ticks when last read of this area has been done.
0x00010004 (65540)	Time of Prev Read	uint32	4	R	The number of ticks when previous read of this area has been done.
0x00010008 (65544)	Time of Last Change	uint32	4	R	The number of ticks when this area has changed last time.
0x0001000c (65548)	Data is Valid	uint32	4	R	If data read are valid this fields value is 1, if not is 0.
0x00010010 (65552)	Module ID string	char[32]	32	R	ID string of Ultimo chip Manufacturer
0x00010030 (65584)	Model ID	char[32]	32	R	ID of Ultimo chip Model
0x00010050 (65616)	Software Version	uint32	4	R	Software version of Ultimo chip. The most significant byte shows the first digit, the next byte shows the second digit and the two least significant byte show the third digit.
0x00010054 (65620)	Software Build	uint32	4	R	Software build of Ultimo chip
0x00010058 (65624)	Firmware Version	uint32	4	R	Firmware version of Ultimo chip. The most significant byte shows the first digit, the next byte shows the second digit and the two least significant byte show the third digit.
0x0001005c (65628)	Firmware Build	uint32	4	R	Firmware build of Ultimo chip
0x00010060 (65632)	BootLoader Version	uint32	4	R	BootLoader Version of Ultimo chip
0x00010064 (65636)	BootLoader Build	uint32	4	R	BootLoader build of Ultimo chip
0x00010068 (65640)	Api Version	uint32	4	R	Api Version of Ultimo chip
0x0001006c (65644)	Cap Flags	uint32	4	R	Cap Flags of Ultimo chip
0x00010070 (65648)	Status Flags	uint32	4	R	Status Flags of Ultimo chip

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com



## Network Basic

This area contains the information about current Network Settings

Offset	Name	Type	Dim	R \ W	Description														
0x00010100 (65792)	Time of Last Read	uint32	4	R	The number of ticks when last read of this area has been done.														
0x00010104 (65796)	Time of Prev Read	uint32	4	R	The number of ticks when previous read of this area has been done.														
0x00010108 (65800)	Time of Last Change	uint32	4	R	The number of ticks when this area has changed last time.														
0x0001010c (65804)	Data is Valid	uint32	4	R	If data read are valid this fields value is 1, if not is 0.														
0x00010110 (65808)	Number of Interfaces	uint16	2	R	Number of available network interfaces. Mezzo has only 1.														
0x00010114 (65812)	MAC Address	uint8[6]	6	R	Ultimo MAC address expressed in big endian. If MAC address is 00:1D:C1:AA:BB:CC, bytes are: <table><tr><th>offset</th><th>bytes</th></tr><tr><td>0x00</td><td>0x00</td></tr><tr><td>0x01</td><td>0x1D</td></tr><tr><td>0x02</td><td>0xC1</td></tr><tr><td>0x03</td><td>0xAA</td></tr><tr><td>0x04</td><td>0xBB</td></tr><tr><td>0x05</td><td>0xCC</td></tr></table>	offset	bytes	0x00	0x00	0x01	0x1D	0x02	0xC1	0x03	0xAA	0x04	0xBB	0x05	0xCC
offset	bytes																		
0x00	0x00																		
0x01	0x1D																		
0x02	0xC1																		
0x03	0xAA																		
0x04	0xBB																		
0x05	0xCC																		
0x0001011a (65818)	Flags	uint16	2	R	Flags of Network Interface.														
0x0001011c (65820)	Mode	uint16	2	R	If value is 4 the IP is static if not is Dynamic.														
0x00010120 (65824)	Speed	uint32	4	R	Speed of the Network Interface														
0x00010124 (65828)	Number of Addresses	uint16	2	R	Number of Addresses on the Network interface														
0x00010126 (65830)	Family	uint16	2	R	Family of the IP Address														
0x00010128 (65832)	IPAddress	uint8[4]	4	R\W	It's the IP address of this Network Interface. Is expressed in big endian, example: <table><tr><th>offset</th><th>bytes</th></tr><tr><td>0x00</td><td>0xC0 (192)</td></tr><tr><td>0x01</td><td>0xA8 (168)</td></tr><tr><td>0x02</td><td>0x37 ( 55)</td></tr><tr><td>0x03</td><td>0x6C (108)</td></tr></table>	offset	bytes	0x00	0xC0 (192)	0x01	0xA8 (168)	0x02	0x37 ( 55)	0x03	0x6C (108)				
offset	bytes																		
0x00	0xC0 (192)																		
0x01	0xA8 (168)																		
0x02	0x37 ( 55)																		
0x03	0x6C (108)																		
0x0001012c (65836)	Net Mask	uint8[4]	4	R\W	It's the Net Mask of this Network Interface.														
0x00010130 (65840)	Gateway	uint8[4]	4	R\W	It's the Gateway of this Network Interface.														

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Model Manufacturer Info

This area contains the information about Manufacturer

Offset	Name	Type	Dim	R \ W	Description
0x00010200 (66048)	Time of Last Read	uint32	4	R	The number of ticks when last read of this area has been done.
0x00010204 (66052)	Time of Prev Read	uint32	4	R	The number of ticks when previous read of this area has been done.
0x00010208 (66056)	Time of Last Change	uint32	4	R	The number of ticks when this area has changed last time.
0x0001020c (66060)	Data is Valid	uint32	4	R	If data read are valid this fields value is 1, if not is 0.
0x00010210 (66064)	Manufacturer ID	char	32	R	ID of Ultimo chip Manufacturer
0x00010230 (66096)	Model ID	char[32]	32	R	ID of Ultimo chip Model
0x00010250 (66128)	Software Version	uint32	4	R	Software version of Ultimo chip
0x00010254 (66132)	Software Build	uint32	4	R	Software build of Ultimo chip
0x00010258 (66136)	Firmware Version	uint32	4	R	Firmware version of Ultimo chip
0x0001025c (66140)	Firmware Build	uint32	4	R	Firmware build of Ultimo chip
0x00010260 (66144)	Cap Flags	uint32	4	R	Cap Flags of Ultimo chip
0x00010264 (66148)	Model Version	uint32	4	R	Model Version of Ultimo chip

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Audio Basic

This area contains the information about Audio Basic Settings

Offset	Name	Type	Dim	R \ W	Description
0x00010300 (66304)	Time of Last Read	uint32	4	R	The number of ticks when last read of this area has been done.
0x00010304 (66308)	Time of Prev Read	uint32	4	R	The number of ticks when previous read of this area has been done.
0x00010308 (66312)	Time of Last Change	uint32	4	R	The number of ticks when this area has changed last time.
0x0001030c (66316)	Data is Valid	uint32	4	R	If data read are valid this fields value is 1, if not is 0.
0x00010310 (66320)	Status	uint32	4	R	Check Audinate Documentation
0x00010314 (66324)	Change Flags	uint8	1	R	Check Audinate Documentation
0x00010316 (66326)	Default Encoding	uint16	2	R	Check Audinate Documentation
0x00010318 (66328)	Rx Channels	uint16	2	R	Number of Receiving Channels
0x0001031a (66330)	Tx Channels	uint16	2	R	Number of Trasmitting Channels
0x0001031c (66332)	Cap Flags	uint32	4	R	Check Audinate Documentation
0x00010320 (66336)	Default Sample Rate	uint32	4	R	Check Audinate Documentation

## Routing RX Channels Settings

This area contains the information about Routing RX Channels Settings

BlockId	Start Address	End Address	Description
<a href="#">RX Channel 1 Settings</a>	0x00010400	0x000104a8	RX Channel 1 Settings
<a href="#">RX Channel 2 Settings</a>	0x000104a8	0x00010550	RX Channel 2 Settings
<a href="#">RX Channel 3 Settings</a>	0x00010550	0x000105f8	RX Channel 3 Settings
<a href="#">RX Channel 4 Settings</a>	0x000105f8	0x000106a0	RX Channel 4 Settings

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## RX Channel 1 Settings

RX Channel 1 Settings

Offset	Name	Type	Dim	R \ W	Description
0x00010400 (66560)	Time of Last Read	uint32	4	R	The number of ticks when last read of this area has been done.
0x00010404 (66564)	Time of Prev Read	uint32	4	R	The number of ticks when previous read of this area has been done.
0x00010408 (66568)	Time of Last Change	uint32	4	R	The number of ticks when this area has changed last time.
0x0001040c (66572)	Data is Valid	uint32	4	R	If data read are valid this fields value is 1, if not is 0.
0x00010410 (66576)	Channel Name	char[32]	32	R	Null-terminated default Rx channel 1 name string.
0x00010430 (66608)	Encoding	uint16	2	R	Audio encoding used by this Rx channel 1.
0x00010434 (66612)	Sample Rate	uint32	4	R	Audio sample rate for Rx channel 1.
0x00010438 (66616)	PCM Map	uint16	2	R	Bitmask of supported PCM encodings, in bytes (eg 0x4 => 24 bits).
0x0001043a (66618)	Channel Flags	uint16	2	R	Channel 1 flags.
0x0001043c (66620)	Channel Flags Mask	uint16	2	R	Bitwise OR'd mask which specify which channel_flags are valid.
0x0001043e (66622)	Channel Label	char[32]	32	R	Null-terminated Rx channel 1 label string.
0x0001045e (66654)	Status	uint16	2	R	Subscription status of this Rx channel 1.
0x00010460 (66656)	Availability	uint8	1	R	A non-zero value indicates that channel 1 is available to receive audio
0x00010461 (66657)	Active	uint8	1	R	A non-zero value indicates that channel 1 is active
0x00010462 (66658)	Subscribed Channel	char[32]	32	R	Null-terminated string of the Tx channel that Rx channel 1 is subscribed to. If no subscription is active then this field is NULL.
0x00010482 (66690)	Subscribe Device	char[32]	32	R	Null-terminated string of the Tx device that Rx channel 1 is subscribed to. If no subscription is active then this field is NULL.
0x000104a2 (66722)	Flow ID	uint16	2	R	Flow ID associated with this Rx channel, only valid if channel 1 is subscribed.
0x000104a4 (66724)	Slot ID	uint16	2	R	Slot ID associated this this Rx channel 1.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## RX Channel 2 Settings

RX Channel 2 Settings

Offset	Name	Type	Dim	R \ W	Description
0x000104a8 (66728)	Time of Last Read	uint32	4	R	The number of ticks when last read of this area has been done.
0x000104ac (66732)	Time of Prev Read	uint32	4	R	The number of ticks when previous read of this area has been done.
0x000104b0 (66736)	Time of Last Change	uint32	4	R	The number of ticks when this area has changed last time.
0x000104b4 (66740)	Data is Valid	uint32	4	R	If data read are valid this fields value is 1, if not is 0.
0x000104b8 (66744)	Channel Name	char[32]	32	R	Null-terminated default Rx channel 1 name string.
0x000104d8 (66776)	Encoding	uint16	2	R	Audio encoding used by this Rx channel 1.
0x000104dc (66780)	Sample Rate	uint32	4	R	Audio sample rate for Rx channel 1.
0x000104e0 (66784)	PCM Map	uint16	2	R	Bitmask of supported PCM encodings, in bytes (eg 0x4 => 24 bits).
0x000104e2 (66786)	Channel Flags	uint16	2	R	Channel 1 flags.
0x000104e4 (66788)	Channel Flags Mask	uint16	2	R	Bitwise OR'd mask which specify which channel_flags are valid.
0x000104e6 (66790)	Channel Label	char[32]	32	R	Null-terminated Rx channel 1 label string.
0x00010506 (66822)	Status	uint16	2	R	Subscription status of this Rx channel 1.
0x00010508 (66824)	Availability	uint8	1	R	A non-zero value indicates that channel 1 is available to receive audio
0x00010509 (66825)	Active	uint8	1	R	A non-zero value indicates that channel 1 is active
0x0001050a (66826)	Subscribed Channel	char[32]	32	R	Null-terminated string of the Tx channel that Rx channel 1 is subscribed to. If no subscription is active then this field is NULL.
0x0001052a (66858)	Subscribe Device	char[32]	32	R	Null-terminated string of the Tx device that Rx channel 1 is subscribed to. If no subscription is active then this field is NULL.
0x0001054a (66890)	Flow ID	uint16	2	R	Flow ID associated with this Rx channel, only valid if channel 1 is subscribed.
0x0001054c (66892)	Slot ID	uint16	2	R	Slot ID associated this this Rx channel 1.

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## RX Channel 3 Settings

RX Channel 3 Settings

Offset	Name	Type	Dim	R \ W	Description
0x00010550 (66896)	Time of Last Read	uint32	4	R	The number of ticks when last read of this area has been done.
0x00010554 (66900)	Time of Prev Read	uint32	4	R	The number of ticks when previous read of this area has been done.
0x00010558 (66904)	Time of Last Change	uint32	4	R	The number of ticks when this area has changed last time.
0x0001055c (66908)	Data is Valid	uint32	4	R	If data read are valid this fields value is 1, if not is 0.
0x00010560 (66912)	Channel Name	char[32]	32	R	Null-terminated default Rx channel 1 name string.
0x00010580 (66944)	Encoding	uint16	2	R	Audio encoding used by this Rx channel 1.
0x00010584 (66948)	Sample Rate	uint32	4	R	Audio sample rate for Rx channel 1.
0x00010588 (66952)	PCM Map	uint16	2	R	Bitmask of supported PCM encodings, in bytes (eg 0x4 => 24 bits).
0x0001058a (66954)	Channel Flags	uint16	2	R	Channel 1 flags.
0x0001058c (66956)	Channel Flags Mask	uint16	2	R	Bitwise OR'd mask which specify which channel_flags are valid.
0x0001058e (66958)	Channel Label	char[32]	32	R	Null-terminated Rx channel 1 label string.
0x000105ae (66990)	Status	uint16	2	R	Subscription status of this Rx channel 1.
0x000105b0 (66992)	Availability	uint8	1	R	A non-zero value indicates that channel 1 is available to receive audio
0x000105b1 (66993)	Active	uint8	1	R	A non-zero value indicates that channel 1 is active
0x000105b2 (66994)	Subscribed Channel	char[32]	32	R	Null-terminated string of the Tx channel that Rx channel 1 is subscribed to. If no subscription is active then this field is NULL.
0x000105d2 (67026)	Subscribe Device	char[32]	32	R	Null-terminated string of the Tx device that Rx channel 1 is subscribed to. If no subscription is active then this field is NULL.
0x000105f2 (67058)	Flow ID	uint16	2	R	Flow ID associated with this Rx channel, only valid if channel 1 is subscribed.
0x000105f4 (67060)	Slot ID	uint16	2	R	Slot ID associated this this Rx channel 1.

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## RX Channel 4 Settings

RX Channel 4 Settings

Offset	Name	Type	Dim	R \ W	Description
0x000105f8 (67064)	Time of Last Read	uint32	4	R	The number of ticks when last read of this area has been done.
0x000105fc (67068)	Time of Prev Read	uint32	4	R	The number of ticks when previous read of this area has been done.
0x00010600 (67072)	Time of Last Change	uint32	4	R	The number of ticks when this area has changed last time.
0x00010604 (67076)	Data is Valid	uint32	4	R	If data read are valid this fields value is 1, if not is 0.
0x00010608 (67080)	Channel Name	char[32]	32	R	Null-terminated default Rx channel 1 name string.
0x00010628 (67112)	Encoding	uint16	2	R	Audio encoding used by this Rx channel 1.
0x0001062c (67116)	Sample Rate	uint32	4	R	Audio sample rate for Rx channel 1.
0x00010630 (67120)	PCM Map	uint16	2	R	Bitmask of supported PCM encodings, in bytes (eg 0x4 => 24 bits).
0x00010632 (67122)	Channel Flags	uint16	2	R	Channel 1 flags.
0x00010634 (67124)	Channel Flags Mask	uint16	2	R	Bitwise OR'd mask which specify which channel_flags are valid.
0x00010636 (67126)	Channel Label	char[32]	32	R	Null-terminated Rx channel 1 label string.
0x00010656 (67158)	Status	uint16	2	R	Subscription status of this Rx channel 1.
0x00010658 (67160)	Availability	uint8	1	R	A non-zero value indicates that channel 1 is available to receive audio
0x00010659 (67161)	Active	uint8	1	R	A non-zero value indicates that channel 1 is active
0x0001065a (67162)	Subscribed Channel	char[32]	32	R	Null-terminated string of the Tx channel that Rx channel 1 is subscribed to. If no subscription is active then this field is NULL.
0x0001067a (67194)	Subscribe Device	char[32]	32	R	Null-terminated string of the Tx device that Rx channel 1 is subscribed to. If no subscription is active then this field is NULL.
0x0001069a (67226)	Flow ID	uint16	2	R	Flow ID associated with this Rx channel, only valid if channel 1 is subscribed.
0x0001069c (67228)	Slot ID	uint16	2	R	Slot ID associated this this Rx channel 1.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Routing TX Channels Settings

This area contains the information about Routing TX Channels Settings

BlockId	Start Address	End Address	Description
<a href="#">TX Channel 1 Settings</a>	0x00010800	0x00010860	Tx Channel 1 Settings
<a href="#">TX Channel 2 Settings</a>	0x00010860	0x000108c0	Tx Channel 2 Settings
<a href="#">TX Channel 3 Settings</a>	0x000108c0	0x00010920	Tx Channel 3 Settings
<a href="#">TX Channel 4 Settings</a>	0x00010920	0x00010980	Tx Channel 4 Settings

## TX Channel 1 Settings

Tx Channel 1 Settings

Offset	Name	Type	Dim	R \ W	Description
0x00010800 (67584)	Time of Last Read	uint32	4	R	The number of ticks when last read of this area has been done.
0x00010804 (67588)	Time of Prev Read	uint32	4	R	The number of ticks when previous read of this area has been done.
0x00010808 (67592)	Time of Last Change	uint32	4	R	The number of ticks when this area has changed last time.
0x0001080c (67596)	Data is Valid	uint32	4	R	If data read are valid this fields value is 1, if not is 0.
0x00010810 (67600)	Channel Name	char[32]	32	R	Null-terminated default Tx channel 1 name string.
0x00010830 (67632)	Encoding	uint16	2	R	Audio encoding used by this Tx channel 1.
0x00010834 (67636)	Sample Rate	uint32	4	R	Audio sample rate for Tx channel 1.
0x00010838 (67640)	PCM Map	uint16	2	R	Bitmask of supported PCM encodings, in bytes (eg 0x4 => 24 bits).
0x0001083a (67642)	Channel Flags	uint16	2	R	Channel 1 flags.
0x0001083c (67644)	Channel Flags Mask	uint16	2	R	Bitwise OR'd mask which specify which channel_flags are valid.
0x0001083e (67646)	Channel Label	char[32]	32	R	Null-terminated Rx channel 1 label string.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## TX Channel 2 Settings

Tx Channel 2 Settings

Offset	Name	Type	Dim	R \ W	Description
0x00010860 (67680)	Time of Last Read	uint32	4	R	The number of ticks when last read of this area has been done.
0x00010864 (67684)	Time of Prev Read	uint32	4	R	The number of ticks when previous read of this area has been done.
0x00010868 (67688)	Time of Last Change	uint32	4	R	The number of ticks when this area has changed last time.
0x0001086c (67692)	Data is Valid	uint32	4	R	If data read are valid this fields value is 1, if not is 0.
0x00010870 (67696)	Channel Name	char[32]	32	R	Null-terminated default Tx channel 1 name string.
0x00010890 (67728)	Encoding	uint16	2	R	Audio encoding used by this Tx channel 1.
0x00010894 (67732)	Sample Rate	uint32	4	R	Audio sample rate for Tx channel 1.
0x00010898 (67736)	PCM Map	uint16	2	R	Bitmask of supported PCM encodings, in bytes (eg 0x4 => 24 bits).
0x0001089a (67738)	Channel Flags	uint16	2	R	Channel 1 flags.
0x0001089c (67740)	Channel Flags Mask	uint16	2	R	Bitwise OR'd mask which specify which channel_flags are valid.
0x0001089e (67742)	Channel Label	char[32]	32	R	Null-terminated Rx channel 1 label string.

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## TX Channel 3 Settings

Tx Channel 3 Settings

Offset	Name	Type	Dim	R \ W	Description
0x000108c0 (67776)	Time of Last Read	uint32	4	R	The number of ticks when last read of this area has been done.
0x000108c4 (67780)	Time of Prev Read	uint32	4	R	The number of ticks when previous read of this area has been done.
0x000108c8 (67784)	Time of Last Change	uint32	4	R	The number of ticks when this area has changed last time.
0x000108cc (67788)	Data is Valid	uint32	4	R	If data read are valid this fields value is 1, if not is 0.
0x000108d0 (67792)	Channel Name	char[32]	32	R	Null-terminated default Tx channel 1 name string.
0x000108f0 (67824)	Encoding	uint16	2	R	Audio encoding used by this Tx channel 1.
0x000108f4 (67828)	Sample Rate	uint32	4	R	Audio sample rate for Tx channel 1.
0x000108f8 (67832)	PCM Map	uint16	2	R	Bitmask of supported PCM encodings, in bytes (eg 0x4 => 24 bits).
0x000108fa (67834)	Channel Flags	uint16	2	R	Channel 1 flags.
0x000108fc (67836)	Channel Flags Mask	uint16	2	R	Bitwise OR'd mask which specify which channel_flags are valid.
0x000108fe (67838)	Channel Label	char[32]	32	R	Null-terminated Rx channel 1 label string.

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## TX Channel 4 Settings

Tx Channel 4 Settings

Offset	Name	Type	Dim	R \ W	Description
0x00010920 (67872)	Time of Last Read	uint32	4	R	The number of ticks when last read of this area has been done.
0x00010924 (67876)	Time of Prev Read	uint32	4	R	The number of ticks when previous read of this area has been done.
0x00010928 (67880)	Time of Last Change	uint32	4	R	The number of ticks when this area has changed last time.
0x0001092c (67884)	Data is Valid	uint32	4	R	If data read are valid this fields value is 1, if not is 0.
0x00010930 (67888)	Channel Name	char[32]	32	R	Null-terminated default Tx channel 1 name string.
0x00010950 (67920)	Encoding	uint16	2	R	Audio encoding used by this Tx channel 1.
0x00010954 (67924)	Sample Rate	uint32	4	R	Audio sample rate for Tx channel 1.
0x00010958 (67928)	PCM Map	uint16	2	R	Bitmask of supported PCM encodings, in bytes (eg 0x4 => 24 bits).
0x0001095a (67930)	Channel Flags	uint16	2	R	Channel 1 flags.
0x0001095c (67932)	Channel Flags Mask	uint16	2	R	Bitwise OR'd mask which specify which channel_flags are valid.
0x0001095e (67934)	Channel Label	char[32]	32	R	Null-terminated Rx channel 1 label string.

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
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## Device Identity

This area contains the information about Device Identity

Offset	Name	Type	Dim	R \ W	Description
0x00010a00 (68096)	Time of Last Read	uint32	4	R	The number of ticks when last read of this area has been done.
0x00010a04 (68100)	Time of Prev Read	uint32	4	R	The number of ticks when previous read of this area has been done.
0x00010a08 (68104)	Time of Last Change	uint32	4	R	The number of ticks when this area has changed last time.
0x00010a0c (68108)	Data is Valid	uint32	4	R	If data read are valid this fields value is 1, if not is 0.
0x00010a10 (68112)	Status Flags	uint16	2	R	Check for Audinate Documentation.
0x00010a12 (68114)	Process ID	uint16	2	R	Check for Audinate Documentation.
0x00010a14 (68116)	Device ID	char[17]	17	R	Device ID of Ultimo Chip.
0x00010a25 (68133)	Default Name	char[32]	32	R	Default Name of Ultimo Chip.
0x00010a45 (68165)	Friendly Name	char[32]	32	R	Friendly Name of Ultimo Chip.
0x00010a65 (68197)	Domain	char[32]	32	R	Domain of Ultimo Chip.
0x00010a85 (68229)	Advertised Name	char[32]	32	R	Advertised Name of Ultimo Chip.

## Device SRate

This area contains the information about Device SRate.

Offset	Name	Type	Dim	R \ W	Description
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## Device AES67

This area contains the information about Device AES67.

Offset	Name	Type	Dim	R \ W	Description
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## Device Routing Performance

This area contains the information about Device Routing Performance.

Offset	Name	Type	Dim	R \ W	Description
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## Device Lock Unlock

This area contains the information about Device Lock Unlock.

Offset	Name	Type	Dim	R \ W	Description
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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Device Basic Clock

This area contains the information about Device Basic Clock.

Offset	Name	Type	Dim	R \ W	Description
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## Device VLAN

This area contains the information about Device VLAN.

BlockId	Start Address	End Address	Description
<a href="#">VLAN Config</a>	0x00011000	0x00011018	This area contains the information about VLAN Config.
<a href="#">Device VLAN ID 1</a>	0x00011018	0x00011050	Check for Audinate Documentation.
<a href="#">Device VLAN ID 2</a>	0x00011050	0x00011088	Check for Audinate Documentation.
<a href="#">Device VLAN ID 3</a>	0x00011088	0x000110c0	Check for Audinate Documentation.
<a href="#">Device VLAN ID 4</a>	0x000110c0	0x000110f8	Check for Audinate Documentation.

## VLAN Config

This area contains the information about VLAN Config.

Offset	Name	Type	Dim	R \ W	Description
0x00011000 (69632)	Time of Last Read	uint32	4	R	The number of ticks when last read of this area has been done.
0x00011004 (69636)	Time of Prev Read	uint32	4	R	The number of ticks when previous read of this area has been done.
0x00011008 (69640)	Time of Last Change	uint32	4	R	The number of ticks when this area has changed last time.
0x0001100c (69644)	Data is Valid	uint32	4	R	If data read are valid this fields value is 1, if not is 0.
0x00011010 (69648)	VLAN Max Num	uint8	1	R	Check for Audinate Documentation.
0x00011011 (69649)	VLAN Num	uint8	1	R	Check for Audinate Documentation.
0x00011012 (69650)	VLAN Current ID	uint8	1	R	Possible values are: 1 for switched, 2 for split.
0x00011013 (69651)	VLAN Reboot ID	uint8	1	R	Check for Audinate Documentation.
0x00011014 (69652)	VLAN Config Port Mask	uint16	2	R	Check for Audinate Documentation.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Device VLAN ID 1

Check for Audinate Documentation.

Offset	Name	Type	Dim	R \ W	Description
0x00011018 (69656)	VLAN ID	uint32	4	R	Check for Audinate Documentation.
0x0001101c (69660)	VLAN Primary Bitmap	uint32	4	R	Check for Audinate Documentation.
0x00011020 (69664)	VLAN Secondary Bitmap	uint32	4	R	Check for Audinate Documentation.
0x00011024 (69668)	VLAN User 2 Bitmap	uint32	4	R	Check for Audinate Documentation.
0x00011028 (69672)	VLAN User 3 Bitmap	uint32	4	R	Check for Audinate Documentation.
0x0001102c (69676)	VLAN Name String	char[33]	33	R	Check for Audinate Documentation.

## Device VLAN ID 2

Check for Audinate Documentation.

Offset	Name	Type	Dim	R \ W	Description
0x00011050 (69712)	VLAN ID	uint32	4	R	Check for Audinate Documentation.
0x00011054 (69716)	VLAN Primary Bitmap	uint32	4	R	Check for Audinate Documentation.
0x00011058 (69720)	VLAN Secondary Bitmap	uint32	4	R	Check for Audinate Documentation.
0x0001105c (69724)	VLAN User 2 Bitmap	uint32	4	R	Check for Audinate Documentation.
0x00011060 (69728)	VLAN User 3 Bitmap	uint32	4	R	Check for Audinate Documentation.
0x00011064 (69732)	VLAN Name String	char[33]	33	R	Check for Audinate Documentation.

## Device VLAN ID 3

Check for Audinate Documentation.

Offset	Name	Type	Dim	R \ W	Description
0x00011088 (69768)	VLAN ID	uint32	4	R	Check for Audinate Documentation.
0x0001108c (69772)	VLAN Primary Bitmap	uint32	4	R	Check for Audinate Documentation.
0x00011090 (69776)	VLAN Secondary Bitmap	uint32	4	R	Check for Audinate Documentation.
0x00011094 (69780)	VLAN User 2 Bitmap	uint32	4	R	Check for Audinate Documentation.
0x00011098 (69784)	VLAN User 3 Bitmap	uint32	4	R	Check for Audinate Documentation.
0x0001109c (69788)	VLAN Name String	char[33]	33	R	Check for Audinate Documentation.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Device VLAN ID 4

Check for Audinate Documentation.

Offset	Name	Type	Dim	R \ W	Description
0x000110c0 (69824)	VLAN ID	uint32	4	R	Check for Audinate Documentation.
0x000110c4 (69828)	VLAN Primary Bitmap	uint32	4	R	Check for Audinate Documentation.
0x000110c8 (69832)	VLAN Secondary Bitmap	uint32	4	R	Check for Audinate Documentation.
0x000110cc (69836)	VLAN User 2 Bitmap	uint32	4	R	Check for Audinate Documentation.
0x000110d0 (69840)	VLAN User 3 Bitmap	uint32	4	R	Check for Audinate Documentation.
0x000110d4 (69844)	VLAN Name String	char[33]	33	R	Check for Audinate Documentation.

## Device Switch Status

This area contains the information about Device Switch Status.

BlockId	Start Address	End Address	Description
<a href="#">Switch Ports</a>	0x00011200	0x00011214	This area contains the information about Switch Status Ports.
<a href="#">Switch Ports Status 1</a>	0x00011214	0x00011220	Check for Audinate Documentation.
<a href="#">Switch Ports Status 2</a>	0x00011220	0x0001122c	Check for Audinate Documentation.

## Switch Ports

This area contains the information about Switch Status Ports.

Offset	Name	Type	Dim	R \ W	Description
0x00011200 (70144)	Time of Last Read	uint32	4	R	The number of ticks when last read of this area has been done.
0x00011204 (70148)	Time of Prev Read	uint32	4	R	The number of ticks when previous read of this area has been done.
0x00011208 (70152)	Time of Last Change	uint32	4	R	The number of ticks when this area has changed last time.
0x0001120c (70156)	Data is Valid	uint32	4	R	If data read are valid this fields value is 1, if not is 0.
0x00011210 (70160)	Switch Status Enabled Ports Values	uint16	2	R	Check for Audinate Documentation.
0x00011212 (70162)	Switch Status Ports Number	uint8	1	R	Check for Audinate Documentation.

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com

## Switch Ports Status 1

Check for Audinate Documentation.

Offset	Name	Type	Dim	R \ W	Description
0x00011214 (70164)	Valid Flags	uint16	2	R	Valid flags bitmask indicating which fields in this messages are valid.
0x00011216 (70166)	Link Speed	uint16	2	R	Link speed in Mbps.
0x00011218 (70168)	Port Number	uint8	1	R	Port number.
0x00011219 (70169)	Port Mode	uint8	1	R	Port mode.
0x0001121a (70170)	Link Flags Mask	uint8	1	R	Bitmask of which bits in the Link Flags are valid.
0x0001121b (70171)	Link Flags	uint8	1	R	Bitmask of link flags.
0x0001121c (70172)	Error Count	uint32	4	R	Error count - RX errors, FCS errors, etc.

## Switch Ports Status 2

Check for Audinate Documentation.

Offset	Name	Type	Dim	R \ W	Description
0x00011220 (70176)	Valid Flags	uint16	2	R	Valid flags bitmask indicating which fields in this messages are valid.
0x00011222 (70178)	Link Speed	uint16	2	R	Link speed in Mbps.
0x00011224 (70180)	Port Number	uint8	1	R	Port number.
0x00011225 (70181)	Port Mode	uint8	1	R	Port mode.
0x00011226 (70182)	Link Flags Mask	uint8	1	R	Bitmask of which bits in the Link Flags are valid.
0x00011227 (70183)	Link Flags	uint8	1	R	Bitmask of link flags.
0x00011228 (70184)	Error Count	uint32	4	R	Error count - RX errors, FCS errors, etc.

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Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Set Dante Network

This command sets the IP, Netmask and Gateway for the UXT chip.  
To set DHCP, message field must be set to 0.

Offset	Name	Type	Dim	R \ W	Description
0x00012000 (73728)	IPAddress	uint8[4]	4	W	Is the IP address. Is expressed in big endian.
0x00012004 (73732)	NetMask	uint8[4]	4	W	Is the NetMask address. Is expressed in big endian.
0x00012008 (73736)	DefaultGW	uint8[4]	4	W	Is the default gateway address. Is expressed in big endian.

## Set Dante ID

This command sets the UXT chip friendly name.

Offset	Name	Type	Dim	R \ W	Description
0x00012010 (73744)	Dante Module ID string	char[32]	32	W	ID string of UXT chip. This array must be a null-terminated string, so it can contain up to 31 characters.

## Set Dante Tx Label

This command sets the label for a specific Tx channel.

Offset	Name	Type	Dim	R \ W	Description
0x00012030 (73776)	Dante Tx channel number	uint16	2	W	Tx channel number, 0-based [0 -> 3].
0x00012032 (73778)	Dante Tx channel name string	char[32]	32	W	Tx channel name string. This array must be a null-terminated string, so it can contain up to 31 characters.

## Dante Tapping

This command links a Rx channel to the specified Tx channel of a Tx device.

Offset	Name	Type	Dim	R \ W	Description
0x00012060 (73824)	Dante Rx channel number	uint16	2	W	Rx channel number, 0-based [0 -> 3].
0x00012062 (73826)	Dante Tx channel name string	char[32]	32	W	Tx channel name string. This array must be a null-terminated string, so it can contain up to 31 characters.
0x00012082 (73858)	Dante Tx device name string	char[32]	32	W	Tx device name string. This array must be a null-terminated string, so it can contain up to 31 characters.

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

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## Dante Reboot

This command reboots the UXT chip.

Offset	Name	Type	Dim	R \ W	Description
0x000120b0 (73904)	Dante Reboot	uint8	1	W	If set to `0xAC` reboots the UXT chip.

## OEM Spare Area

Empty Spare Area dedicated to OEM.

Offset	Name	Type	Dim	R \ W	Description
0x00013000 (77824)	Spare Area	char[256]	256	R\W	Empty spare area for OEM.

## Blink

The blink command

Offset	Name	Type	Dim	R \ W	Description
0x00100000 (1048576)	Blink	uint8	1	W	If set to `1` starts blinking, if set to `0` stops blinking

## System Reboot

The system reboot command

Offset	Name	Type	Dim	R \ W	Description
0x00100001 (1048577)	System Reboot	uint8	1	W	If set to `0xAC` reboots the device

## Load Default Parameters

Equivalent to an hardware Hard Reset

Offset	Name	Type	Dim	R \ W	Description
0x00100002 (1048578)	Load Default Parameters	uint8	1	W	If set to `0x01` load the default parameters of preset

## Firmware Area

This area contains the firmware. The max size for firmware is 1048576

Offset	Name	Type	Dim	R \ W	Description
0x00700000 (7340032)	Firmware	uint8[]	1048576	W	Reads the TempTrasf

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com



## Firmware Start

This area contains the new firmware information, use this to verify the firmware before flash it

Offset	Name	Type	Dim	R \ W	Description
0x00900000 (9437184)	Firmware CRC	uint16	2	W	The firmware crc
0x00900002 (9437186)	Firmware size	uint32	4	W	The firmware size

## Firmware Flash Erase

This will start the upgrade firmware

Offset	Name	Type	Dim	R \ W	Description
0x00900010 (9437200)	Start upgrade	uint8	1	W	Starts the firmware upgrade

### Headquarters

Via Enrico Conti, 5  
50018 Scandicci, FI, Italy  
T. +39 055 735 0230

### Warehouse

Via Enrico Conti, 13  
50018 Scandicci, FI, Italy  
T. +39 055 735 1387

sales@powersoft.it  
powersoft-audio.com