

PSKey configuration mode for OVC3860 based bluetooth audio modules

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Tomáš Kováčik edited this page on 4 Mar 2019 · 7 revisions

What are PSKeys

More info about PSKeys, what they are and how they works is in [this document](#).

Entering PSKey configuration mode

BT modules immediately after start send this message on serial port at 115200b:

0x04 0x0F 0x04 0x00 0x01 0x00 0x00

to enter PSKey configuration mode we must reply with message:

0xC5 0xC7 0xC7 0xC9 0xD0 0xD7 0xC9 0xD1 0xCD

and module acknowledge entering configuration mode with message:

0x04 0x0F 0x04 0x01 0x01 0x00 0x00

for more info see enterConfigMode() in OVC3860.cpp

Communication in PSKey configuration mode:

all messages in this mode are at least 4bytes long, based on this structure:

- TYPE (4bits)
- ADDR (12bits)
- SIZE (16bits)

0xTYPE(4bits)+ADDR(upper4bits) 0xADDR(8bits) 0xSIZE 0xSIZE

- 1st byte is used as indication of message type (upper 4bits) and as part of address

- 2nd byte address
- 3st and 4th byte number of bytes to by send.

message types (bits 7,6,5,4 of byte 1):

- 0x1* read
- 0x2* response to read
- 0x3* write
- 0x4* response to write
- 0x5* used to quit configuration mode (command ??)

If we send for example **0x11, 0xc7, 0x00, 0x10** (read module name) we are sending:

0x1* - read data from address 0x*1c7, size 0x0010 - sixteen characters

module will response with:

0x21 0xc7 0x00 0x10 0x4b 0x4f 0x56 0x4f 0x54 0x45 0x53 0x54 0x42 0x54 0x00 0x35 0x20 0x62 0x79 0x74

0x2* - response to read command

0x*1c7 - address

0x0010 - size, 16bytes

0x4b 0x4f 0x56 0x4f 0x54 0x45 0x53 0x54 0x42 0x54 0x00 0x35 0x20 0x62 0x79 0x74

K O V O T E S T B T NULL(term.) .. garbage

to write new name TEST123456789012, we must send:

0x31 0xc7 0x00 0x10 0x54 0x45 0x53 0x54 0x31 0x32 0x33 0x34 0x35 0x36 0x37 0x38 0x39 0x30 0x31 0x32

0x3* - indicating that we wanna write something

0x*1c7 - address

0x0010 - size of 16bytes

0x54 0x45 0x53 0x54 0x31 0x32 0x33 0x34 0x35 0x36 0x37 0x38 0x39 0x30 0x31 0x32 - actual name

T E S T 1 2 3 4 5 6 7 8 9 0 1 2

module will acknowledge it be sending:

0x41 0xc7 0x00 0x10

0x4* - ack of write

0x*1c7 - address

0x0010 - size

(catching response is not fully implemented yet in function)

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