BMBT

From HackTheIBus

BMBT stands for "On-board monitor operating part". This address represents the Bord monitor tape player and the buttons and knobs that are located on the front side.

Messages from BMBT

The following BMBT messages are known:

Code	Meaning
0x02	Device status ready
0x15	Country coding status
0x48	Button pressed or released
0x49	Knob pressed, released or turned
0x4B	Tape responses

0x48 Button messages

Byte 0 has the following bit definiton

Bit	Meaning
0	button code
1	button code
2	button code
3	button code
4	button code
5	button code
6	event type
7	event type

Bit 6..7 represent the event type

Bit 7	Bit 6	meaning
0	0	pressed for <1 sec.
0	1	pressed for >1 sec.
1	0	released

Bit 0..5 represent the button pressed

Value of Bit 0..5	Key	Destination
0x00	">" Step forward	0x68 Radio
0x01	"2"	0x68 Radio

0x02	"4"	0x68 Radio
0x03	"6"	0x68 Radio
0x04	"Tone"	0x68 Radio
0x05	Select knop pressed	0x3B NAVE
0x07	"Info"	0x68 Radio
0x08	"Telephone"	0xFF
0x10	"<" Step backwards	0x68 Radio
0x11	"1"	0x68 Radio
0x12	"3"	0x68 Radio
0x13	"5"	0x68 Radio
0x20	"Select"	0x68 Radio
0x21	"AM"	0x68 Radio
0x22	"RDS"	0x68 Radio
0x23	"Mode"	0x68 Radio
0x24	"Eject"	0x68 Radio
0x30	"Menu"	0x68 Radio
0x31	"FM"	0x68 Radio
0x32	"TP"	0x68 Radio
0x34	"Menu"	0xFF

Example

BMBT tells radio that button "FM" has been pressed down

TX	LL	RX	CMD	Byte 0	CS
0xF0	0x04	0x68	0x48	0x31	0xE5

0x4B Tape

The BMBT sends responses to radio, if an action is done or should be done to a tape.

The following messagetypes are known:

F0 04 68 4B 05 CS // No tape inserted

F0 05 68 4B 06 xx CS

xx can be:

Value of bit	Description
0x11	Play site 2 of tape
0x12	Play site 1 of tape
0x51	Fast forward
0x61	Fast backward
0x81	Dolby off
0x82	Dolby B
0x84	Dolby C

0xF0	Error

Example

Response of tape to radio on fast forward

TX	LL	RX	CMD	Byte 0	Byte 1	CS
0xF0	0x05	0x68	0x4B	0x06	0x51	0x81

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