

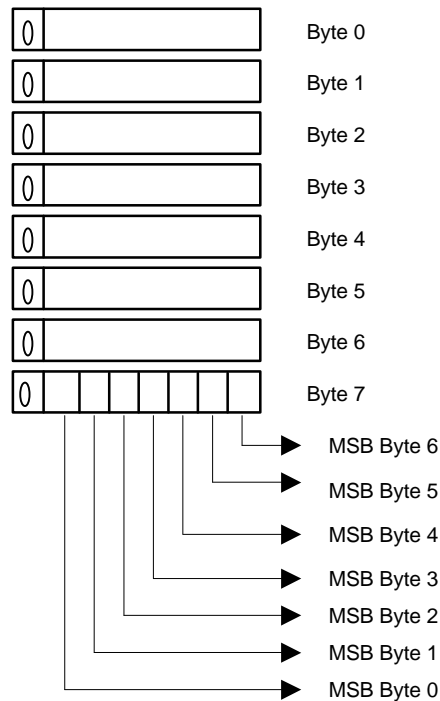
MIDI FOOT CONTROLLER FCB1010

SYSEX FILE STRUCTURE

The FCB1010 MIDI Memory Dump has a special format that needs to be decoded for interpretation and further application in a MIDI editor. The problem: the internal memory appearance of 8 bit (1 Byte) needs to be transmitted via MIDI in 7 bit. The meaning of each Byte in the SysEx file is explained in the following:

1. First Byte 0xf0: Start of SysEx
2. 3 Bytes BEHRINGER ID (0x00, 0x20, 0x32)
3. 1 Byte Global Channel
4. 1 Byte Device ID (0x0c for FCB1010)
5. Data packages with 8 Bytes each.

The transmitted Bytes' MSBs (most significant bit) are always zero (MIDI). For this reason the first 7 Bytes' MSBs are transmitted altogether in the 8th Byte.



The MSBs in Byte 7 are to be transferred into the particular positions of Bytes 0 ... 6 and stored in this manner. This results in an exact image of the FCB1010 memory whereas the addresses 0x000 ... 0x640 are occupied with preset data.

6. Last Byte 0xf7> End of SysEx



The Memory data is structured as follows:

Preset 0 (Bank 0, Switch 1)

Addr. 0x000 program change 1
Addr. 0x001 program change 2
Addr. 0x002 program change 3
Addr. 0x003 program change 4
Addr. 0x004 program change 5
Addr. 0x005 control change 1
Addr. 0x006 control change 1 value /MSB Relay 1*)
Addr. 0x007 control change 2
Addr. 0x008 control change 2 value /MSB Relay 2*)
Addr. 0x009 expression pedal A control change
Addr. 0x00a expression pedal A control change lower value
Addr. 0x00b expression pedal A control change upper value
Addr. 0x00c expression pedal B control change
Addr. 0x00d expression pedal B control change lower value
Addr. 0x00e expression pedal B control change upper value
Addr. 0x00f note

*) The MSBs of the Control Change Value bytes contain the status of relay (Switch) 1 and 2 respectively.

Preset 1 (Bank 0, Switch 2)

Addr. 0x010 program change 1
Addr. 0x011 program change 2
Addr. 0x012 program change 3
Addr. 0x013 program change 4
Addr. 0x014 program change 5
Addr. 0x015 control change 1
Addr. 0x016 control change 1 value /MSB Relay 1*)
Addr. 0x017 control change 2
Addr. 0x018 control change 2 value /MSB Relay 2*)
Addr. 0x019 expression pedal A control change
Addr. 0x01a expression pedal A control change lower value
Addr. 0x01b expression pedal A control change upper value
Addr. 0x01c expression pedal B control change
Addr. 0x01d expression pedal B control change lower value
Addr. 0x01e expression pedal B control change upper value
Addr. 0x01f note

Preset 2

Addr. 0x020 program change 1
Addr. 0x021 program change 2
Addr. 0x022 program change 3
Addr. 0x023 program change 4
Addr. 0x024 program change 5
Addr. 0x025 control change 1
Addr. 0x026 control change 1 value /MSB Relay 1*)
Addr. 0x027 control change 2
Addr. 0x028 control change 2 value /MSB Relay 2*)
Addr. 0x029 expression pedal A control change
Addr. 0x02a expression pedal A control change lower value
Addr. 0x02b expression pedal A control change upper value
Addr. 0x02c expression pedal B control change
Addr. 0x02d expression pedal B control change lower value
Addr. 0x02e expression pedal B control change upper value
Addr. 0x02f note

Preset 3

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-
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... and so on till Preset 99 (Bank 9, Button 10).

The MIDI channels for each function are stored globally in the addresses 0x7e0 ... 0x7e9.

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