

VIVO H7/H3/H1 MIDI IMPLEMENTATION

1. Received data

■ Channel Voice Messages

● Note off

Status	2nd byte	3rd byte
8nH	kkH	ccH

n= MIDI channel number: 0H~FH (Ch.1~16)
kk= note number: 00H~7FH (0~127)
cc= note off velocity: 00H~7FH (0~127)

● Note on

Status	2nd byte	3rd byte
9nH	kkH	vvH

n= MIDI channel number: 0H~FH (Ch.1~16)
kk= note number: 00H~7FH (0~127)
vv= note off velocity: 00H~7FH (0~127)

- Not received when Rx. STATUS= OFF. (Initial value is ON)

■ Control Change

● Bank Sound Select (Controller number 0, 32)

Status	2nd byte	3rd byte
BnH	00H	mmH

n= MIDI channel number: 0H~FH (Ch.1~16)
mm= Bank number MSB: 00H~7FH (Initial value= 00H)

● Modulation (Controller number 1)

Status	2nd byte	3rd byte
BnH	01H	vvH

n= MIDI channel number: 0H~FH (Ch.1~16)
vv= Modulation depth: 00H~7FH (0~127)

- Not received when Rx. MODULATION is OFF (Initial value is ON).

● Volume (Controller number 7)

Status	2nd byte	3rd byte
BnH	07H	vvH

n= MIDI channel number 0H~FH (Ch.1~16)
vv= Volume: 00H~7FH (0~127),

- Not received when Rx. VOLUME is OFF (Initial value is ON).

● Panpot (Controller number 10)

Status	2nd byte	3rd byte
BnH	0AH	vvH

n= MIDI channel number: 0H~FH (Ch.1~16)
vv= pan: 00H~40H~7FH (Left~Center~Right). Initial value= 40H (Center)

- Not received when "PanPot" RX is Off

● Expression (Controller number 11)

Status	2nd byte	3rd byte
BnH	0BH	vvH

n= MIDI channel number: 0H~FH (Ch.1~16)
vv= Expression: 00H~7FH (0~127), Initial value= 7FH (127)

- Not received when "Expression" RX is Off.

● Hold (Controller number 64)

Status	2nd byte	3rd byte
BnH	40H	vvH

n= MIDI channel number: 0H~FH (Ch.1~16)
vv= Control value: 00H~7FH (0~127)

- Not received when "Hold" RX is Off.

● Sostenuto (Controller number 66)

Status	2nd byte	3rd byte
BnH	42H	vvH

n= MIDI channel number: 0H~FH (Ch.1~16)
vv= Control value: 00H~7FH (0~127) 0~63= OFF, 64~127= ON

- Not received when "Sostenuto" RX is Off.

● Soft (Controller number 67)

Status	2nd byte	3rd byte
BnH	43H	vvH

n= MIDI channel number: 0H~FH (Ch.1~16)
vv= Control value: 00H~7FH (0~127) 0~63= OFF, 64~127= ON

- Not received when "Soft" RX is Off.

● Reverb Send Level (Controller number 91)

Status	2nd byte	3rd byte
BnH	5BH	vvH

n= MIDI channel number: 0H~FH (Ch.1~16)
vv= Reverb Send Level: 00H~7FH (0~127)

- This message adjusts the Reverb Send Level of each Part.
- Not received when "Reverb" RX is Off.

● Program Change

Status	2nd byte
CnH	ppH

n= MIDI channel number: 0H~FH (Ch.1~16)
pp= Program number: 00H~7FH (prog.1~prog.128)

- Not received when "PG" RX is Off.

● Pitch Bend Change

Status 2nd byte 3rd byte

EnH lIH mmH

n = MIDI channel number: 0H~FH (Ch.1~16)

mm, ll = Pitch Bend value: 00 00H~40 00H~7F 7FH (-8192~0~+8191)

- Not received when "PB" RX is Off.

■ Channel Mode Messages

● All Sounds Off (Controller number 120)

Status 2nd byte 3rd byte

BnH 78H 00H

n = MIDI channel number: 0H~FH (Ch.1~16)

When the message is received, all notes currently sounding on the corresponding channel will be turned Off.

● Reset All Controllers (Controller number 121)

Status 2nd byte 3rd byte

BnH 79H 00H

n = MIDI channel number: 0H~FH (Ch.1~16)

- When this message is received, the following controllers will be set to their reset values.

Controller Reset value

Pitch Bend Change +/-0 (center)

Modulation 0 (off)

Expression 127 (max)

Hold 1 0 (off)

Sostenuto 0 (off)

Soft 0 (off)

● All Notes Off (Controller number 123)

Status 2nd byte 3rd byte

BnH 7BH 00H

n = MIDI channel number: 0H~FH (Ch.1~16)

When All Notes Off is received, all notes on the corresponding channel will be turned off. However, if Hold 1 or Sostenuto is ON, the sound will be continued until these are turned off.

■ Memory RX

Midi Message	Value	Memory
PG	0~19	MEMORY: 1~20

PG 0~19 MEMORY: 1~20

Default MIDI channel is 15

Example:

- to receive Memory 1 send PG=0
- to receive Memory 20 send PG=19
- Not received when "Memory RX Status" is Off.

2. Transmitted data

■ Channel Voice Messages

● Note off

Status	2nd byte	3rd byte
8nH	kkH	ccH

n = MIDI channel number: 0H~FH (Ch.1~16)
kk = note number: 00H~7FH (0~127)

cc = note off velocity: 00H~7FH (0~127)

● Note on

Status	2nd byte	3rd byte
9nH	kkH	vvH

n = MIDI channel number: 0H~FH (Ch.1~16)

kk = note number: 00H~7FH (0~127)

vv = note off velocity: 00H~7FH (0~127)

■ Control Change

● Bank Select (Controller number 0, 32)

Status	2nd byte	3rd byte
BnH	00H	mmH
BnH	20H	llH

n = MIDI channel number: 0H~FH (Ch.1~16)

mm = Bank number MSB: 00H~7FH

ll = Bank number LSB: 00H~7FH

• Not transmitted when "PG" Tx is Off.

● Volume (Controller number 7)

Status	2nd byte	3rd byte
BnH	07H	vvH

n = MIDI channel number 0H~FH (Ch.1~16)

vv = Volume: 00H~7FH (0~127), Initial value = 64H (100)

• Not transmitted when "Volume" TX is off.

● Panpot (Controller number 10)

Status	2nd byte	3rd byte
BnH	0AH	vvH

n = MIDI channel number: 0H~FH (Ch.1~16)

vv = pan: 00H~40H~7FH (Left~Center~Right),

• The stereo position can be adhusted in 127 steps.

• Not transmitted when "PanPot" RX is Off

● Hold (Controller number 64)

Status	2nd byte	3rd byte
BnH	40H	vvH

n = MIDI channel number: 0H~FH (Ch.1~16)

vv = Control value: 00H~7FH (0~127)

• Not transmitted when "Hold" TX is Off.

● Sostenuto (Controller number 66)

Status	2nd byte	3rd byte
BnH	42H	vvH

n = MIDI channel number: 0H~FH (Ch.1~16)

vv = Control value: 00H~7FH (0~127) 0~63 = OFF, 64~127 = ON

• Not transmitted when "Sostenuto" TX is Off.

● Soft (Controller number 67)

Status	2nd byte	3rd byte
BnH	43H	vvH

n = MIDI channel number: 0H~FH (Ch.1~16)

vv = Control value: 00H~7FH (0~127) 0~63 = OFF, 64~127 = ON

• Not transmitted when "Soft" TX is Off.

● Reverb Send Level (Controller number 91)

Status	2nd byte	3rd byte
BnH	5BH	vvH

n = MIDI channel number: 0H~FH (Ch.1~16)

vv = Reverb Send Level: 00H~7FH (0~127)

• This message adjusts the Reverb Send Level of each Part.

• Not transmitted when "Reverb" TX is Off.

● Program Change

Status	2nd byte
CnH	ppH

n = MIDI channel number: 0H~FH (Ch.1~16)

pp = Program number: 00H~7FH (prog.1~prog.128)

• Not transmitted when "Program Change" TX is Off.

■ Memory TX

Midi Message	Value	Memory
PG	0~19	MEMORY: 1~20

Default MIDI channel is 15

• Not transmitted when "Memory TX Status" is Off.