

VIVO S8/S8M/S4/S2_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 on 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= 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= 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	OBH	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	IIH	mmH
<i>n= MIDI channel number: 0H~FH (Ch.1~16)</i>		
<i>mm, II= Pitch Bend value: 00 00H~40 00H~7F 7FH (-8192~0~+8191)</i>		

- Not received when "PB" RX is Off.

● AFTERTOUCH (Channel Pressure)

Status	2nd byte
DnH	vvH
<i>n= MIDI channel number: 0H~FH (Ch.1~16)</i>	
<i>vv= value: 00H~7FH (0~127)</i>	

- Not received when "Aftertouch" RX is Off.
- The Aftertouch will affect to all notes received in that channel.

■ Channel Mode Messages

● All Sounds Off (Controller number 120)

Status	2nd byte	3rd byte
BnH	78H	00H
<i>n= MIDI channel number: 0H~FH (Ch.1~16)</i>		

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		
<i>n= MIDI channel number: 0H~FH (Ch.1~16)</i>		
• When this message is received, all controllers will be reset 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		
<i>n= MIDI channel number: 0H~FH (Ch.1~16)</i>		

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

be continued until these are turned off.

■ System Realtime Messages

● Active Sensing

Status	2nd byte	3rd byte
FEH		
• This message is received at intervals of approximately 250 ms.		

■ Memory RX

Midi Message	Value	Memory
CC00	0~8	BANK : 1~9
PG	0~8	NUMBER: 1~9
PG	0~79	MEMORY: 1~80 (ONLY FOR VIVO S2)

- Default MIDI channel is 15

Example:

- to receive Memory 1.1 send CC00=0, PG=0
- to receive Memory 4.2 send CC00=3, PG=1
- to receive Memory 1 send PG=0 (ONLY FOR VIVO S2)
- to receive Memory 80 send PG=75 (ONLY FOR VIVO S2)
- Not received when "Memory RX Status" is Off.

■ TONE WHEEL MIDI Messages

● MAIN TW 16' (Controller number 16)

Status	2nd byte	3rd byte
BnH	10H	vvH
<i>n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14</i>		
<i>vv= Control value: 00H~7FH (0~127)</i>		

- Not received when "Organ Control - Status" RX is Off.

● MAIN TW 5 1/3' (Controller number 17)

Status	2nd byte	3rd byte
BnH	11H	vvH
<i>n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14</i>		
<i>vv= Control value: 00H~7FH (0~127)</i>		

- Not received when "Organ Control - Status" RX is Off.

● MAIN TW 8' (Controller number 18)

Status	2nd byte	3rd byte
BnH	12H	vvH
<i>n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14</i>		
<i>vv= Control value: 00H~7FH (0~127)</i>		

- Not received when "Organ Control - Status" RX is Off.

● MAIN TW 4' (Controller number 19)

Status	2nd byte	3rd byte
BnH	13H	vvH
<i>n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14</i>		
<i>vv= Control value: 00H~7FH (0~127)</i>		

- Not received when "Organ Control - Status" RX is Off.

● MAIN TW 2 2/3' (Controller number 20)

Status 2nd byte 3rd byte

BnH 14H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● LOWER TW 5 1/3' (Controller number 71)

Status 2nd byte 3rd byte

BnH 47H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● MAIN TW 2' (Controller number 21)

Status 2nd byte 3rd byte

BnH 15H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 2nd byte 3rd byte

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● LOWER TW 8' (Controller number 72)

Status 2nd byte 3rd byte

BnH 48H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● MAIN TW 1 3/5' (Controller number 22)

Status 2nd byte 3rd byte

BnH 16H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● LOWER TW 4' (Controller number 73)

Status 2nd byte 3rd byte

BnH 49H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● MAIN TW 1 1/3' (Controller number 23)

Status 2nd byte 3rd byte

BnH 17H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● LOWER TW 2 2/3' (Controller number 74)

Status 2nd byte 3rd byte

BnH 4AH vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● MAIN TW 1' (Controller number 24)

Status 2nd byte 3rd byte

BnH 18H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● LOWER TW 2' (Controller number 75)

Status 2nd byte 3rd byte

BnH 4BH vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● LOWER TW 16' (Controller number 70)

Status 2nd byte 3rd byte

BnH 46H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● LOWER TW 1 3/5' (Controller number 76)

Status 2nd byte 3rd byte

BnH 4CH vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● LOWER TW 1 1/3' (Controller number 77)

Status 2nd byte 3rd byte

BnH 4DH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

LOWER TW 1' (Controller number 78)

Status 2nd byte 3rd byte

BnH 4EH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

PEDAL TW 16' (Controller number 14)

Status 2nd byte 3rd byte

BnH 0EH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

PEDAL TW 5 1/3' (Controller number 15)

Status 2nd byte 3rd byte

BnH 0FH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

PEDAL TW 8' (Controller number 25)

Status 2nd byte 3rd byte

BnH 19H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

PEDAL TW 4' (Controller number 26)

Status 2nd byte 3rd byte

BnH 1AH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● PEDAL TW 2 2/3' (Controller number 27)

Status 2nd byte 3rd byte

BnH 1BH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● PEDAL TW 2' (Controller number 28)

Status 2nd byte 3rd byte

BnH 1CH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● PEDAL TW 1 3/5' (Controller number 29)

Status 2nd byte 3rd byte

BnH 1DH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● PEDAL TW 1 1/3' (Controller number 30)

Status 2nd byte 3rd byte

BnH 1EH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● PEDAL TW 1' (Controller number 31)

Status 2nd byte 3rd byte

BnH 1FH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not received when "Organ Control - Status" RX is Off.

● TW Percussion ON/OFF (Controller number 87)

Status 2nd byte 3rd byte

BnH 57H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = Off, 7FH = On

• Not received when "Organ Control - Status" RX is Off.

● TW Percussion NORMAL/SOFT (Controller number 88)

Status 2nd byte 3rd byte

BnH 58H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Normal, 7FH = Soft

• Not received when "Organ Control - Status" RX is Off.

● TW Overdrive On/Off (Controller number 83)

Status 2nd byte 3rd byte

BnH 53H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Off, 7FH = On

• Not received when "Organ Control - Status" RX is Off.

● TW Percussion Time SLOW/FAST (Controller number 89)

Status 2nd byte 3rd byte

BnH 59H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Slow, 7FH = Fast

• Not received when "Organ Control - Status" RX is Off.

● TW Overdrive Level (Controller number 90)

Status 2nd byte 3rd byte

BnH 5AH vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = 00, 7FH = 100

• Not received when "Organ Control - Status" RX is Off.

● TW Percussion Harmonic 2nd/3rd (Controller number 95)

Status 2nd byte 3rd byte

BnH 5FH vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = 2nd, 7FH = 3rd

• Not received when "Organ Control - Status" RX is Off.

● TW Overdrive Drive (Controller number 92)

Status 2nd byte 3rd byte

BnH 5CH vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = 00, 7FH = 100

• Not received when "Organ Control - Status" RX is Off.

● TW Rotary On/Off (Controller number 80)

Status 2nd byte 3rd byte

BnH 50H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Off, 7FH = On

• Not received when "Organ Control - Status" RX is Off.

● TW Overdrive Tone (Controller number 94)

Status 2nd byte 3rd byte

BnH 5EH vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = 00, 7FH = 100

• Not received when "Organ Control - Status" RX is Off.

● TW Rotary Brake On/Off (Controller number 81)

Status 2nd byte 3rd byte

BnH 51H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Off, 7FH = On

• Not received when "Organ Control - Status" RX is Off.

● TW Vibrato Mode (Controller number 84)

Status 2nd byte 3rd byte

BnH 54H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H=V1, 08H=C1, 23H=V2, 3DH=C2, 58H=V3, 72H=C3

• Not received when "Organ Control - Status" RX is Off.

● TW Rotary Slow/Fast (Controller number 82)

Status 2nd byte 3rd byte

BnH 52H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Slow, 7FH = Fast

• Not received when "Organ Control - Status" RX is Off.

● TW Vibrato On/Off (Controller number 69)

Status 2nd byte 3rd byte

BnH 45H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Off, 7FH = On

• Not received when "Organ Control - Status" RX is Off.

● TW Vibrato Upper On/Off (Controller number 85)

Status	2nd byte	3rd byte
BnH	55H	vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Off, 7FH = On

- Not received when "Organ Control - Status" RX is Off.
- When FARF/VX/PIPE type is selected this CC will be affect to "TW Vibrato Upp/Low/Ped" parameter.

● TW Pedal Preset (Controller number 104)

Status	2nd byte
BnH	68H

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~05H (1~5)

TW1 = 01H ~ 05H (Preset 1 ~ Preset 5)

TW2 = 01H ~ 05H (Preset 1 ~ Preset 5)

FARF = 01H ~ 02H (Preset 1 ~ Preset 2)

VX = 01H ~ 05H (Preset 1 ~ Preset 5)

PIPE = 01H ~ 05H (Preset 1 ~ Preset 5)

USER1/USER2 = 01H ~ 05H (Preset 1 ~ Preset 5)

- Not received when "Organ Control - Status" RX is Off.

- Not received when "Organ Control - Preset" RX is Off.

● TW Vibrato Lower/Pedal On/Off (Controller number 86)

Status	2nd byte	3rd byte
BnH	56H	vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Off, 7FH = On

- Not received when "Organ Control - Status" RX is Off.

● TW Upper Preset (Controller number 102)

Status	2nd byte	3rd byte
BnH	66H	vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~17H (1~23)

TW1 = 01H ~ 17H (Preset 1 ~ Preset 23)

TW2 = 01H ~ 17H (Preset 1 ~ Preset 23)

FARF = 01H ~ 05H (Preset 1 ~ Preset 5)

VX = 01H ~ 05H (Preset 1 ~ Preset 5)

PIPE = 01H ~ 05H (Preset 1 ~ Preset 5)

USER1/USER2 = 01H ~ 05H (Preset 1 ~ Preset 5)

- Not received when "Organ Control - Status" RX is Off.

- Not received when "Organ Control - Preset" RX is Off.

● TW Lower Preset (Controller number 103)

Status	2nd byte
BnH	67H

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~17H (1~23)

TW1 = 01H ~ 17H (Preset 1 ~ Preset 23)

TW2 = 01H ~ 17H (Preset 1 ~ Preset 23)

FARF = 01H ~ 05H (Preset 1 ~ Preset 5)

VX = 01H ~ 05H (Preset 1 ~ Preset 5)

PIPE = 01H ~ 05H (Preset 1 ~ Preset 5)

USER1/USER2 = 01H ~ 05H (Preset 1 ~ Preset 5)

- Not received when "Organ Control - Status" RX is Off.

- Not received when "Organ Control - Preset" RX is Off.

2. Trasmitted data

■ Channel Voice Messages

● Note off

Status	2nd byte	3rd byte
8nH	kkH	ccH
<i>n= MIDI channel number: 0H~FH (Ch.1~16)</i>		
<i>kk= note number: 00H~7FH (0~127)</i>		
<i>cc= note off velocity: 00H~7FH (0~127)</i>		

● Note on

Status	2nd byte	3rd byte
9nH	kkH	vvH
<i>n= MIDI channel number: 0H~FH (Ch.1~16)</i>		
<i>kk= note number: 00H~7FH (0~127)</i>		
<i>vv= note on velocity: 00H~7FH (0~127)</i>		

■ Control Change

● Bank Select (Controller number 0, 32)

Status	2nd byte	3rd byte
BnH	00H	mmH
BnH	20H	llH
<i>n= MIDI channel number: 0H~FH (Ch.1~16)</i>		
<i>mm= Bank number MSB: 00H~7FH</i>		
<i>ll= Bank number LSB: 00H~7FH</i>		

• Not transmitted when "PG" TX is Off.

● Modulation (Controller number 1)

Status	2nd byte	3rd byte
BnH	01H	vvH
<i>n= MIDI channel number: 0H~FH (Ch.1~16)</i>		
<i>vv= Modulation depth: 00H~7FH (0~127)</i>		

• Not transmitted when "Modulation" TX is OFF.

● Volume (Controller number 7)

Status	2nd byte	3rd byte
BnH	07H	vvH
<i>n= MIDI channel number 0H~FH (Ch.1~16)</i>		
<i>vv= Volume: 00H~7FH (0~127), Initial value= 64H (100)</i>		

• Not transmitted when "Volume" TX is off.

● Pan (Controller number 10)

Status	2nd byte	3rd byte
BnH	0AH	vvH
<i>n= MIDI channel number: 0H~FH (Ch.1~16)</i>		
<i>vv= pan: 00H~40H~7FH (Left~Center~Right),</i>		

• Not transmitted when "PanPot" TX 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)

• This adjusts the volume of a Part. It can be used independently from Volume messages. Expression messages are used for musical expression within a performance, e.g., expression pedal movements, crescendo and decrescendo.

• Not transmitted when "Expression" TX 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 "PG" TX is Off.

● Pitch Bend Change

Status 2nd byte 3rd byte

EnH IIH mmH

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

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

• Not transmitted when "PB" TX is Off.

● MAIN TW 2 2/3' (Controller number 20)

Status 2nd byte 3rd byte

BnH 14H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● MAIN TW 2' (Controller number 21)

Status 2nd byte 3rd byte

BnH 15H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

■ TONE WHEEL MIDI Messages

● MAIN TW 16' (Controller number 16)

Status 2nd byte 3rd byte

BnH 10H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● MAIN TW 1 3/5' (Controller number 22)

Status 2nd byte 3rd byte

BnH 16H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● MAIN TW 5 1/3' (Controller number 17)

Status 2nd byte 3rd byte

BnH 11H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● MAIN TW 1 1/3' (Controller number 23)

Status 2nd byte 3rd byte

BnH 17H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● MAIN TW 8' (Controller number 18)

Status 2nd byte 3rd byte

BnH 12H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● MAIN TW 1' (Controller number 24)

Status 2nd byte 3rd byte

BnH 18H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● MAIN TW 4' (Controller number 19)

Status 2nd byte 3rd byte

BnH 13H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● LOWER TW 16' (Controller number 70)

Status 2nd byte 3rd byte

BnH 46H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● LOWER TW 5 1/3' (Controller number 71)

Status 2nd byte 3rd byte

BnH 47H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● LOWER TW 1 1/3' (Controller number 77)

Status 2nd byte 3rd byte

BnH 4DH vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● LOWER TW 8' (Controller number 72)

Status 2nd byte 3rd byte

BnH 48H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● LOWER TW 1' (Controller number 78)

Status 2nd byte 3rd byte

BnH 4EH vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● LOWER TW 4' (Controller number 73)

Status 2nd byte 3rd byte

BnH 49H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● PEDAL TW 16' (Controller number 14)

Status 2nd byte 3rd byte

BnH 0EH vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● LOWER TW 2 2/3' (Controller number 74)

Status 2nd byte 3rd byte

BnH 4AH vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● PEDAL TW 5 1/3' (Controller number 15)

Status 2nd byte 3rd byte

BnH 0FH vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● LOWER TW 2' (Controller number 75)

Status 2nd byte 3rd byte

BnH 4BH vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● PEDAL TW 8' (Controller number 25)

Status 2nd byte 3rd byte

BnH 19H vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● LOWER TW 1 3/5' (Controller number 76)

Status 2nd byte 3rd byte

BnH 4CH vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● PEDAL TW 4' (Controller number 26)

Status 2nd byte 3rd byte

BnH 1AH vvH

n=MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● **PEDAL TW 2 2/3' (Controller number 27)**

Status 2nd byte 3rd byte

BnH 1BH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● **TW Percussion NORMAL/SOFT (Controller number 88)**

Status 2nd byte 3rd byte

BnH 58H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Normal, 7FH = Soft

• Not received when "Organ Control - Status" RX is Off.

● **PEDAL TW 2' (Controller number 28)**

Status 2nd byte 3rd byte

BnH 1CH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● **TW Percussion Time SLOW/FAST (Controller number 89)**

Status 2nd byte 3rd byte

BnH 59H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Slow, 7FH = Fast

• Not received when "Organ Control - Status" RX is Off.

● **PEDAL TW 1 3/5' (Controller number 29)**

Status 2nd byte 3rd byte

BnH 1DH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● **TW Percussion Harmonic 2nd/3rd (Controller number 95)**

Status 2nd byte 3rd byte

BnH 5FH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = 2nd, 7FH = 3rd

• Not transmitted when "Organ Control - Status" TX is Off.

● **PEDAL TW 1 1/3' (Controller number 30)**

Status 2nd byte 3rd byte

BnH 1EH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● **TW Rotary On/Off (Controller number 80)**

Status 2nd byte 3rd byte

BnH 50H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Off, 7FH = On

• Not transmitted when "Organ Control - Status" TX is Off.

● **PEDAL TW 1' (Controller number 31)**

Status 2nd byte 3rd byte

BnH 1FH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

• Not transmitted when "Organ Control - Status" TX is Off.

● **TW Rotary Slow/Fast (Controller number 82)**

Status 2nd byte 3rd byte

BnH 52H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Slow, 7FH = Fast

• Not transmitted when "Organ Control - Status" TX is Off.

● **TW Percussion ON/OFF (Controller number 87)**

Status 2nd byte 3rd byte

BnH 57H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Off, 7FH = On

• Not received when "Organ Control - Status" RX is Off.

● **TW Rotary Brake On/Off (Controller number 81)**

Status 2nd byte 3rd byte

BnH 51H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Off, 7FH = On

• Not transmitted when "Organ Control - Status" TX is Off.

● TW Overdrive On/Off (Controller number 83)

Status	2nd byte	3rd byte
BnH	53H	vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Off, 7FH = On

• Not transmitted when "Organ Control - Status" TX is Off.

● TW Overdrive Drive (Controller number 92)

Status	2nd byte	3rd byte
BnH	5CH	vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = 00, 7FH = 100

• Not transmitted when "Organ Control - Status" TX is Off.

● TW Overdrive Level (Controller number 90)

Status	2nd byte	3rd byte
BnH	5AH	vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = 00, 7FH = 100

• Not transmitted when "Organ Control - Status" TX is Off.

● TW Overdrive Tone (Controller number 94)

Status	2nd byte	3rd byte
BnH	5EH	vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = 00, 7FH = 100

• Not transmitted when "Organ Control - Status" TX is Off.

● TW Vibrato Mode (Controller number 84)

Status	2nd byte	3rd byte
BnH	54H	vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H=V1, 08H=C1, 23H=V2, 3DH=C2, 58H=V3, 72H=C3

• Not transmitted when "Organ Control - Status" TX is Off.

● TW Vibrato On/Off (Controller number 69)

Status	2nd byte	3rd byte
BnH	45H	vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Off, 7FH = On

• Not transmitted when "Organ Control - Status" TX is Off.

● TW Vibrato Upper On/Off (Controller number 85)

Status	2nd byte	3rd byte
BnH	55H	vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Off, 7FH = On

• Not transmitted when "Organ Control - Status" TX is Off.

• When FARF/VX/PIPE type is selected this CC will be affect to "TW Vibrato Upp/Low/Ped" parameter.

● TW Vibrato Lower/Pedal On/Off (Controller number 86)

Status	2nd byte	3rd byte
BnH	56H	vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

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

00H = Off, 7FH = On

• Not transmitted when "Organ Control - Status" TX is Off.

● TW Upper Preset (Controller number 102)

Status	2nd byte	3rd byte
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BnH	66H	vvH
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n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~17H (1~23)

TW1 = 01H ~ 17H (Preset 1 ~ Preset 23)

TW2 = 01H ~ 17H (Preset 1 ~ Preset 23)

FARF = 01H ~ 05H (Preset 1 ~ Preset 5)

VX = 01H ~ 05H (Preset 1 ~ Preset 5)

PIPE = 01H ~ 05H (Preset 1 ~ Preset 5)

USER1/USER2 = 01H ~ 05H (Preset 1 ~ Preset 5)

• Not transmitted when "Organ Control - Status" RX is Off.

• Not transmitted when "Organ Control - Preset" RX is Off.

● TW Lower Preset (Controller number 103)

Status	2nd byte	
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BnH	67H	vvH
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n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~17H (1~23)

TW1 = 01H ~ 17H (Preset 1 ~ Preset 23)

TW2 = 01H ~ 17H (Preset 1 ~ Preset 23)

FARF = 01H ~ 05H (Preset 1 ~ Preset 5)

VX = 01H ~ 05H (Preset 1 ~ Preset 5)

PIPE = 01H ~ 05H (Preset 1 ~ Preset 5)

USER1/USER2 = 01H ~ 05H (Preset 1 ~ Preset 5)

• Not transmitted when "Organ Control - Status" RX is Off.

• Not transmitted when "Organ Control - Preset" RX is Off.

● TW Pedal Preset (Controller number 104)

Status 2nd byte

BnH 68H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~05H (1~5)

TW1 = 01H ~ 05H (Preset 1 ~ Preset 5)

TW2 = 01H ~ 05H (Preset 1 ~ Preset 5)

FARF = 01H ~ 02H (Preset 1 ~ Preset 2)

VX = 01H ~ 05H (Preset 1 ~ Preset 5)

PIPE = 01H ~ 05H (Preset 1 ~ Preset 5)

USER1/USER2 = 01H ~ 05H (Preset 1 ~ Preset 5)

- *Not transmitted when "Organ Control - Status" RX is Off.*
- *Not transmitted when "Organ Control - Preset" RX is Off.*

■ MIDI CONTROLLERS (not available for VIVO S2)

● Midi Controllers C1~C6 (assignable from CC1 to CC127)

Status 2nd byte 3rd byte

BnH 01H~7FH vvH

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

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

- *Not transmitted when "C1~C6 to MIDI" button is off.*
- *Each midi controller is assignable from CC1 to CC127*

■ System Realtime Messages

● Active Sensing

Status

FEH

- *This message is transmitted at intervals of approximately 250 ms.*
- *Not transmitted when "Active sensing" is Off.*

● Start

Status

FAH

- *This message is transmitted by Assign pedals/switches set to "MidiStartStop".*

● Stop

Status

FCH

- *This message is transmitted by Assign pedals/switches set to "MidiStartStop".*

■ Memory TX

Midi Message	Value	Memory
CC00	0~8	BANK : 1~9
PG	1~9	NUMBER: 1~9
PG	1~80	MEMORY: 1~80 (ONLY FOR VIVO S2)

- *Default MIDI channel is 15*

- *Not transmitted when "Memory TX Status" is Off.*