

X-TOUCH ONE MIDI Mode Implementation

Buttons (standard MIDI mode):

- Note on #0..34 (push: velocity 127, release: velocity 0)

Buttons (MIDI CC mode):

- CC #0..34 (push: value 127, release: value 0)

Button Leds:

- Note on #0..34 (velocity 0..63: off, velocity 64: flash, velocity 65..127: on)
- CC #0..34 (value 0..63: off, value 64: flash, value 65..127: on)

Fader:

- Control change 70 (receive and transmit)

Fader Touch:

- Note on #110 (touch: velocity 127, release: velocity 0)

Encoder:

- absolute mode: Control change 80 (value 0..127)
- relative mode: Control change 80 (increment: value 65, decrement: value 1)

Encoder Ring:

- Control change 80 (value 0..127)

Jog Wheel:

- Control change 88 (turn CW: value 65, CCW: value 1)

Meter Leds:

- Control change 90 (value 0..127)

Foot Switch:

- Control change 64 (push: velocity 127, release: velocity 0)

LCDs:

- sysex (hex) F0 00 20 32 41 4C 00 cc c1 .. c14 F7
 - cc: bits 0-2: backlight color (black, red, green, yellow, blue, magenta, cyan, white)
 - cc: bit 4: invert upper half of LCD
 - cc: bit 5: invert lower half of LCD
 - c1..c14: ascii characters (1..7: upper half, 8..14: lower half)

Segment Displays:

- sysex (hex) F0 00 20 32 41 37 s1 .. s12 d1 d2 F7
 - s1..s12: segment data (bit 0: segment a, .. bit 6: segment g)
 - d1: dots for displays 1..7 (bit 0: display 1, .. bit 6: display 7)
 - d2: dots for displays 8..12 (bit 0: display 8, .. bit 4: display 12)