

Technical data MIDI to CV Pedal USB Breakout / September 15, 2025

NAVIPANEL V3 MIDI to CV Pedal USB Date: September 15, 2025	Technical data sheet	ID-(BOM)	X21 PINs
01) Modularrack 3HE / 32TE / Dimensions (W x L x H) 163x127x33mm	Eurorack	optional... 1*)	
02) 3D printed Desktop Case 3HE / 32TE / Dimensions (W x L x H) 169x134x38mm	Desktop	optional... 1*)	
03) Desktop Alu-Case 4MS pod32 powered / Dimensions (W x L x H) 166x159x40mm	Metal housing	optional... 1*)	
04) power supply (USB-C Power-Supply Breakout and 4MS 45W Power Brick)	Power-Supply	optional... 1*)	
05) 16-pin box connector with 20cm ribbon cable	for modular (+5V)	Eurorack-Cable	
06) 16-pin box connector with 10cm ribbon cable	for 8TE Eurorack Frontpanel	Eurorack-Cable	1-16
06) internal / external supply for USB-Hub	switchable	included	
07) from USB-HOST Hub Port 4, 1x USB-A of which are NOT in the front panel	from active USB hub U6	U6 (Mainbaord)	
08) 1x USB A connectors on the back via 4-pin connector	USB-A 2.0	X5B HOST-X4B	
09) DAC Channel 1(A) 0-8VDC = 0-3300 (4095) /TS 3,5mm / 1V/ Octave	CV output 1 (NOTE)	TRS 3,5mm	9
10) DAC Channel 2(B) 0-10VDC = 0-3300 (4095) /TS 3,5mm	CV output 2 (MIDI CC)	TRS 3,5mm	11
11) DAC Channel 3(C) 0-10VDC = 0-3300 (4095) /TS 3,5mm	CV output 3 (Velocity)	TRS 3,5mm	13
12) DAC Channel 4(D) 0-10VDC = 0-3300 (4095) /TS 3,5mm	CV output 4 (MIDI CC)	TRS 3,5mm	15
13) GATE OUT TRS 3,5mm 0/5V Optocouplers	modular connection	TRS 3,5mm	5
14) alternative CLOCK OUT TRS 3,5mm 0/5V Optocouplers	modular connection	TRS 3,5mm	(5) 2*)
15) PEDAL Volume Input 1/4 inch TRS +3,3V /Signal /GND (Backside)	modular connection	TRS 6,35mm	6/4
17) CV IN / alternative 0-5VDC / 0-10VDC Input (protected with suppressor diodes)	modular connection	TRS 6,35mm	6/4
18) PEDAL SUSTAIN IN = SUSTAIN 0/+3,3V= LOW/HIGH (Backside)	modular connection	TRS 6,35mm	12/10
19) GATE IN = PEDAL SUSTAIN IN 0/+3,3V= LOW/HIGH	modular connection	TRS 6,35mm	12/10
20) LED2 GATE OUT (Frontside)	LED 3mm low current RED	LED2	7
21) LED1 5V Power (Backside)	LED 3mm low current RED	LED1	14 (VCC +5V)
22) Expansion-Connector 16pol for 8TE Frontpanel with Eurorack compatible	MIDI to CV / Pedals / LEDs	X21	1/2/8 (GND)
23) Expansion-Connector 16pol			3 (AGND)
23) Expansion-Connector 16pol			16 (VDD +12V)

Notes:

Note 1*): the technical data apply from motherboard version and the Navipanel V3 Mainboard is necessary!

V3-R05-v541, July 02, 2025

Midi to CV PCB version (Breakout-Board V3.3) with CV and Gate, Pedals and USB-A4

V3-R03-v309, August 21, 2025

Note 2*) only on the smaller pedal / USB PCB version (PEDAL-USB-Breakout-Board) without Midi to CV and Gate OUT

V3-R02-v73, July 02, 2025