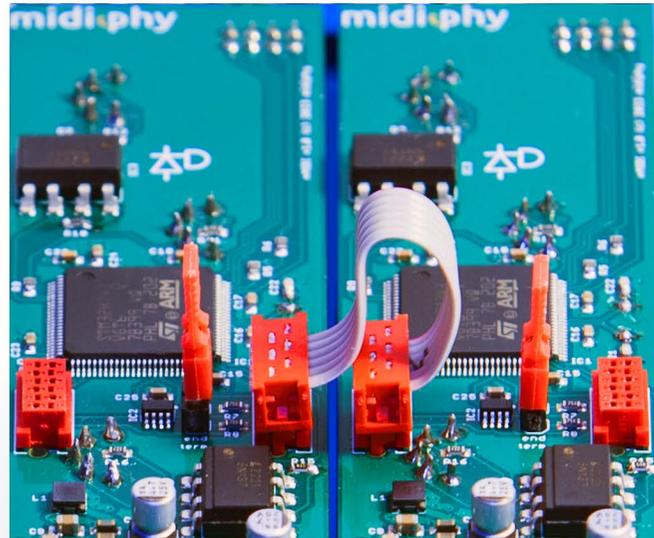# quad MIDI DIN expander

‡ expand your phybus system with 2x2 MIDI IN/OUT DIN ports for classic MIDI synths and keys - chain up to 15x nexusMIDI for 60 ports

midiphy

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phybus setup

Expanders like nexusMIDI require additional phybus modules to be of use.

When installing **multiple phybus modules**:

• use the provided phybus cables to connect all modules, connecting PHY_R to PHY_L ports.
• add bus termination jumpers **only** on the leftmost and rightmost module, remove all other termination jumpers.

Tip: Wire all phybus cables before installing the modules in your eurorack case.

eurorack power setup
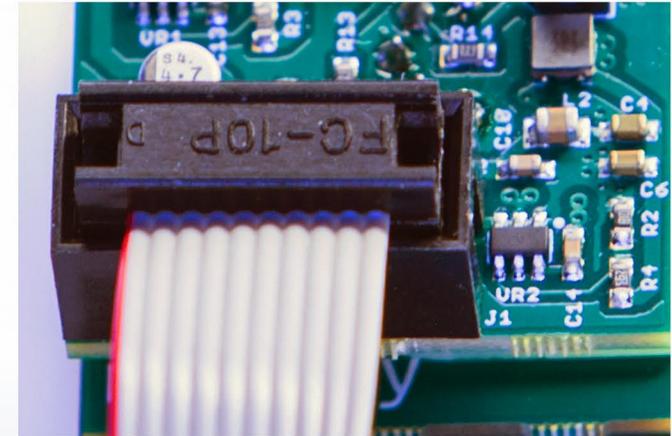
Attach the power cable by plugging it into the shrouded header as shown. Then connect the cable to your bus board, insert the modules into your rack, and fasten them with the provided M3 screws.

software update

Download the newest modular firmware bundle from midiphy and unpack it to the FIRMWARE folder on a microSD card. Insert the card into a zeta or other phybus controller module and launch the bootloader (on a zeta module, press and hold the key at power-up). Then run the "update all" process, confirming the update plan. This can take a few minutes.

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front panel

1 MIDI IN port 1
Connect to MIDI OUT of a synth or keyboard

2 MIDI IN 1 LEDome
Press to splice/route received MIDI traffic from this port to a phybus module

3 MIDI OUT port 1
Connect to MIDI IN of a synthesizer

4 MIDI OUT 1 LEDome
Press to splice/route traffic from a phybus module to this port

5 MIDI IN port 2
Connect to MIDI OUT of a synth or keyboard

6 MIDI IN 2 LEDome
Press to splice/route received MIDI traffic from this port to a phybus module

7 MIDI OUT port 2
Connect to MIDI IN of a synthesizer

8 MIDI OUT 2 LEDome
Press to splice/route traffic from a phybus module to this port

splicing/virtual patching

Splicing virtually connects a hardware port with a remote phybus module.

Let's splice the nexusMIDI **MIDI IN 1** port with a zetaSID MIDI input socket, so that the zetaSID module responds to MIDI notes:

1 Insert a MIDI cable from a keyboard or sequencer into the **MIDI IN 1** port
2 Press the **LEDome** next to the **MIDI IN 1** port
3 On your zetaSID module, the **Splice** dialog appears
4 Turn the zetaSID encoder to select a local socket, the virtual patch cable shown is now "connected"
5 Press the key on zetaSID to confirm the splice. All other modules will return to their previous screens. You can now configure other settings like the MIDI channel on your zetaSID.

Tip: One physical port can be spliced to different modules.

nexus**MIDI**
front panel splicing

midi**phy**
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nexusMIDI
information

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WEEE reg # DE68478759

CE

Hereby, knoblach technologies GmbH declares that this product is in compliance with the following EU legislation: General Product Safety Regulation (EU) 2023/988, Directive 2014/30/EU (Electromagnetic Compatibility), Directive 2011/65/EU as amended by Delegated Directive (EU) 2015/863 (Restriction of Hazardous Substances), Directive 2012/19/EU (Waste Electrical and Electronic Equipment), and Regulation (EC) No 1907/2006 (REACH). The full text of the EU Declaration of Conformity is available at https://midiphy.com

disposal instructions

According to the European WEEE directive, electrical and electronic equipment must not be disposed of with consumers' waste. Its components must be recycled or disposed of separately. Otherwise, hazardous substances can pollute our environment. As a consumer, you are required by law to return electrical and electronic devices to the producer, the dealer, or public collecting points at the end of the device's lifetime for free. Particulars are regulated in national law. The symbol on the product, in the user's manual, or on the packaging refers to these terms. With this kind of waste separation and proper disposal of used devices, you make an important contribution to environmental protection.

batch

designed, assembled, and individually tested in Germany.

thank you

for purchasing a midiphy product - stay creative!

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