



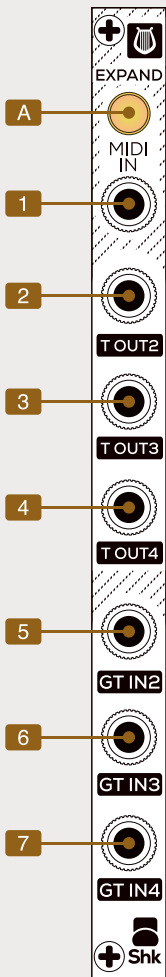
Shakmat Bard Quartet Expand

• 2HP Eurorack Module

• Built & designed in E.U.

• www.shakmat.com





Introduction

The Bard Quartet Expand adds more capabilities to our beloved quad quantizer with numerous new features. With the expander, you get independent gate inputs and trigger outputs for each Bard Quartet channel. Thanks to the MIDI input, you can control the scales using MIDI or even transform your Bard Quartet into a MIDI-to-CV/Gate device.

- | | |
|---------------------------|---------------------------|
| A MIDI button | 4 Trigger output 4 |
| 1 MIDI input | 5 Gate input 2 |
| 2 Trigger output 2 | 6 Gate input 3 |
| 3 Trigger output 3 | 7 Gate input 4 |

Installation

The Bard Quartet Expand requires a standard 2x5 pin eurorack power cable. Make sure the red stripe on the cable matches the -12V side of the Bard Quartet Expand's power header.

Connect the Bard Quartet Expand to the Bard Quartet with the provided 2x4 pin cable. The red stripe of the cable should match the white line on both the Bard Quartet and Bard Quartet Expand.

The Bard Quartet Expand comes with a Type A MIDI-to-TRS adapter. A jumper on the back of the module sets the MIDI TRS Input to Type A when oriented horizontally.

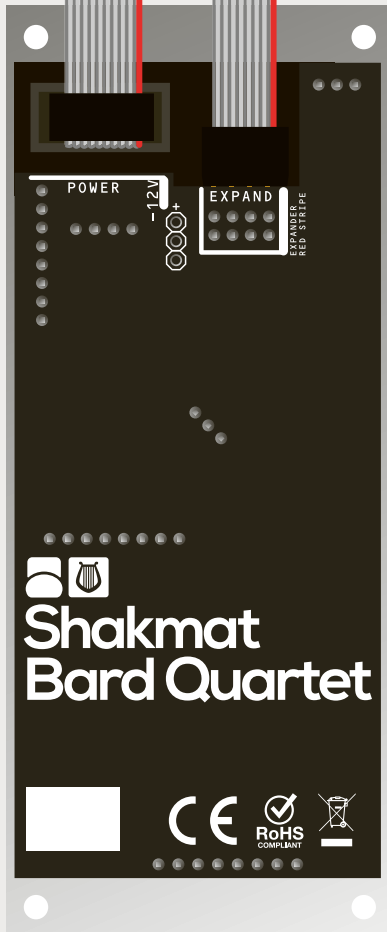
10 PIN
POWER

8 PIN
SIGNAL



10 PIN
POWER

8 PIN
SIGNAL



Bard Quartet Firmware



The Bard Quartet Expand only works with Bard Quartet modules with v1.1 firmware or later. Bard Quartets with batch number A12 or higher already come with compatible firmware.

If unsure whether your Bard Quartet has the latest firmware installed, press the ARPG and μ TUNE buttons simultaneously; both buttons should blink alternatively.

To install the latest firmware version on your Bard Quartet, visit our support page at www.shakmat.com/support.

Enabling the Expander

To enable or disable the expander capability of compatible Bard Quartets, do the following:

1. Press and hold the EDIT button of your Bard Quartet while powering up. Channel buttons will blink alternatively, ARPG button is also blinking.
2. Enable the expander by pressing on the D# note. To disable the expander capability, press the C# note.
3. Confirm your choice by pressing the blinking ARPG button.

Individual Gate Inputs

With the expander, each Bard Quartet channel gets a dedicated gate input. The gate input on the Bard Quartet will only work with channel 1. The gate input functions for channels 2, 3, and 4 are now linked to the corresponding inputs [5,6,7] on the Bard Quartet Expand.



The Shift Register algorithm requires a single clock signal patched to the original gate input on the Bard Quartet to shift to all channels involved.

Individual Trigger Outputs

Similarly to the gate inputs, the trigger output function for channels 2, 3, and 4 are now linked to the corresponding outputs [2,3,4] on the Bard Quartet Expand.

MIDI Quantization Control

The MIDI quantization control feature allows MIDI signals to control the scale. To activate the feature on a channel, select the channel on the Bard Quartet and press the MIDI button [A] on the Bard Quartet Expand. The MIDI button will be turned on for that channel.

MIDI channels 1 to 4 respectively control channels 1 to 4 on the Bars Quartet. Grouped channels will follow the same scale set by the lowest channel's incoming MIDI. Remember, MIDI only controls the notes of a scale; all other features of the Bard Quartet remain the same.

This feature allows you to:

- Program all four channels simultaneously since MIDI channels can run in parallel.
- Quickly create scale progressions by playing a chord while scanning the Harmony parameter.
- Control your quantizer scale in real-time using an external midi keyboard.

To return to scale editing using the keyboard on the Bard Quartet, press the MIDI button [A] to turn the MIDI input off.

MIDI to CV/Gate conversion

The expander allows you to transform any channel of the Bard Quartet into a MIDI to CV/Gate converter. Select a particular channel and then press and hold the MIDI button [A] on the Bard Quartet Expand. The MIDI button [A] will blink slowly for that channel.

Scale editing is no longer possible when a channel is in this mode, but editing functions such as Octave, Gate-In, Trig-Out, and Transpose are still available. Just like when using MIDI to set the scale, in this mode, MIDI channels 1 to 4 respectively control channels 1 to 4.

Pressing the MIDI Button [A] while a channel is in this mode will activate scale editing for that channel. The MIDI button [A] will blink faster. This mode allows the quantization of external MIDI sequences based on the selected scale on the Bard Quartet.



The Bard Quartet has many layers and features. For any questions regarding the MIDI implementation used together with features such as Sample & Hold, Normalization, Shift Register, and Arpeggiator, please refer to the MIDI implementation guide on our website at www.shakmat.com/support.

Specifications

Size

2 HP

Depth

40 mm

Current Draw

5 mA @ +12V

5 mA @ -12V

Gate Inputs

0 to +5V

Trigger Outputs

0 to +5V

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