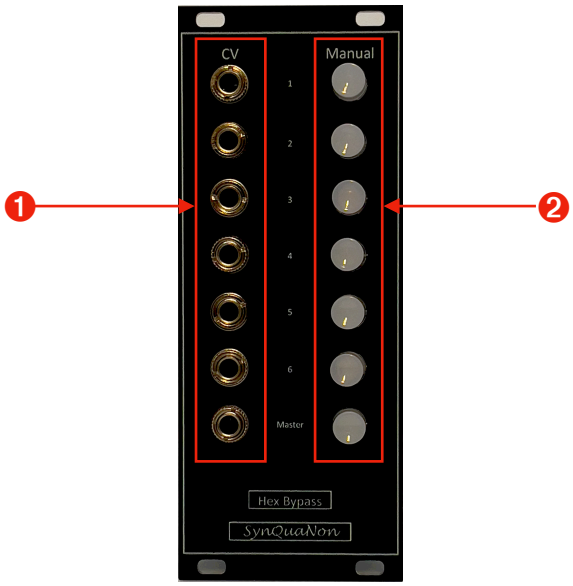
Hex Bypass

Introduction

Congratulations on your purchase of this SynQuaNon product! It is our belief that our products will enable you to find new and interesting ways to create custom sounds with your synthesizer and other SynQuaNon modules. Check out our full line at www.synquanon.com.

Module front panel overview



❶	CV Inputs	DC-coupled CV inputs 1 - 6 and Master; accept 0-5V signals.
❷	Manual Bypass	Momentary pushbuttons to bypass channels 1 - 6 and Master. The pushbuttons will latch and light up red when the effect is active and are off when bypassed. Pressing the buttons a second time will toggle the bypass off.

Overview

The module consists of 6 individual true bypass channels using high-quality miniature audio relays.

Each channel can be triggered (bypassed) via a lighted pushbutton switch on the front panel, as well as a CV (0-5V positive) pulse via front panel jacks or via the SynQuaNon CV Bus on the rear (front jacks are normalized to the rear connections). Just about any CV waveform can be used to modulate the channel bypass, creating a range of interesting possibilities with "effects rhythms". Exciting!

A Master Bypass pushbutton switch, along with Master CV input jack on front panel and a 7th channel on the SynQuaNon CV Bus will invert all 6 channel states; in other words, one can use it as a Master Bypass (with for example a foot switch, just like ordinary guitar pedals) or to switch between two different 6-channel bypass patterns. Add some modulation and stand back for some incredible effects!

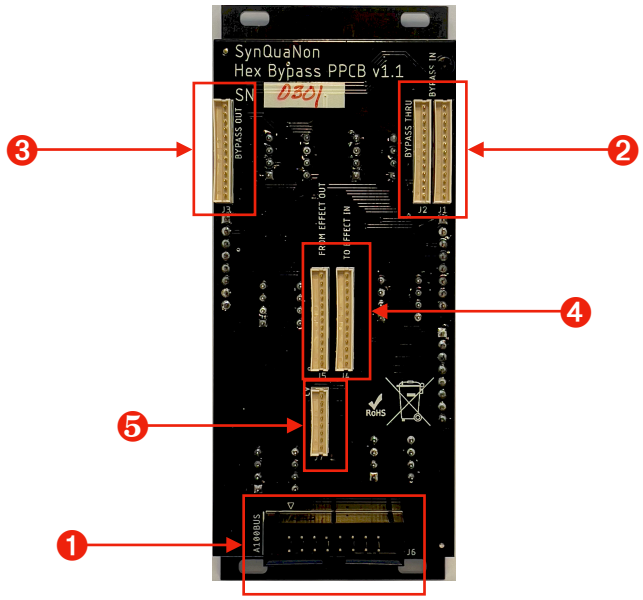
The back of the module features SynQuaNon Audio Bus connectors for Bypass In, Bypass Thru, Bypass Out, as well as Effect In and Effect Out. These are DC coupled so CV signals may be processed as well. As mentioned above, a SynQuaNon CV Bus connector introduces CV inputs for Channels 1-6 and Master. Having these standardized rear bus connections is fantastic: they eliminate 37 patch cables and allow for zero clutter on the front panel.

Ideal for guitar or bass single-string processing.

Features

- High quality, high reliability miniature audio relays designed for high-volume use.
- Custom microprocessor control to eliminate switch bounce and control timing.
- CV triggers may be pulse, square wave or external foot switch with 0-5V output.
- SynQuaNon Bus audio input, audio output, effects input, and effects output headers on the back of the module.
- SynQuaNon Bus CV inputs (channels 1-6 and Master on the back of the module. Front panel jacks are normalized to rear bus connector.
- Pairs well with Hex Fuzz Amplifier, 7-Channel Amplifier, Hex VCF, and Hex VCA.

Module rear panel overview



❶ A100 Bus	Keyed power connection with reverse polarity protection. Red stripe (-12V) is on the left.
❷ Input and Through	DC-coupled SynQuaNon Audio Bus input connection for 6 inputs. Through connector allows for module daisy-chaining.
❸ Output	The 6 DC-coupled output channels are available on this header for patch cable-free connections to other SynQuaNon modules.
❹ Effects In and Out	DC-coupled SynQuaNon Audio Bus connections to effects module inputs and outputs.
❺ CV Inputs	DC-coupled SynQuaNon CV Bus connections for channels 1-6 and Master control on channel 7.

Technical Specifications + Downloads

Width	10 HP	Inputs	DC coupled, 10V p-p
Depth	35 mm	Outputs	DC coupled, 10V p-p
Power	0 mA @ +12V	CV Inputs	DC coupled, 0-5V
	0 mA @ -12V		
	125 mA @ +5V	ModularGrid	Hex Bypass

Reverse power protection, resettable fuses, extensive power supply filtering.

Support

In case of difficulty:

1. Make sure power is available to the Eurorack and that it is turned ON.
2. Check the rear module power connection (turn OFF Eurorack power first)
3. Check patch cables for continuity or shorts.
4. Check level settings on front panel. Check gain select header on rear of module for proper gain range selection (turn OFF Eurorack power first).

For additional information please feel free to contact us at support@synquanon.com