

## MIDI Thru Boxes



Model 2901-029 1 In to 4 Out

Model 2901-028 1 In to 8 Out or switch to 1 In to 4 Out + 1 In to 4 Out

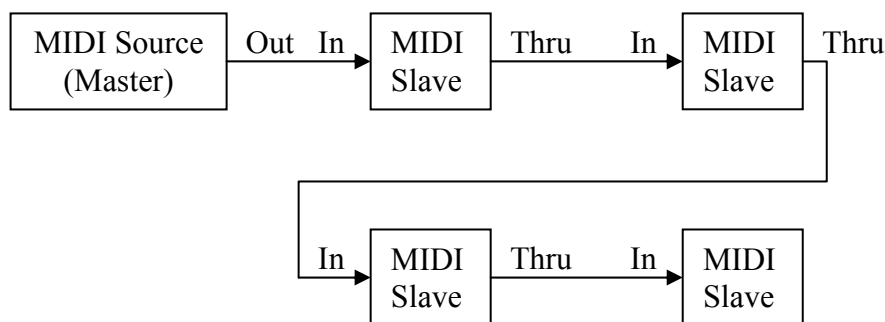
User's Guide

## Introduction

The Technobots MIDI Thru boxes or splitters as they are sometimes called address the problem of driving more than 1 MIDI device from the same MIDI source. It also resolves the problem of signal delay and signal distortion with chains of MIDI thru to MIDI in (especially where the MIDI thru is via software).

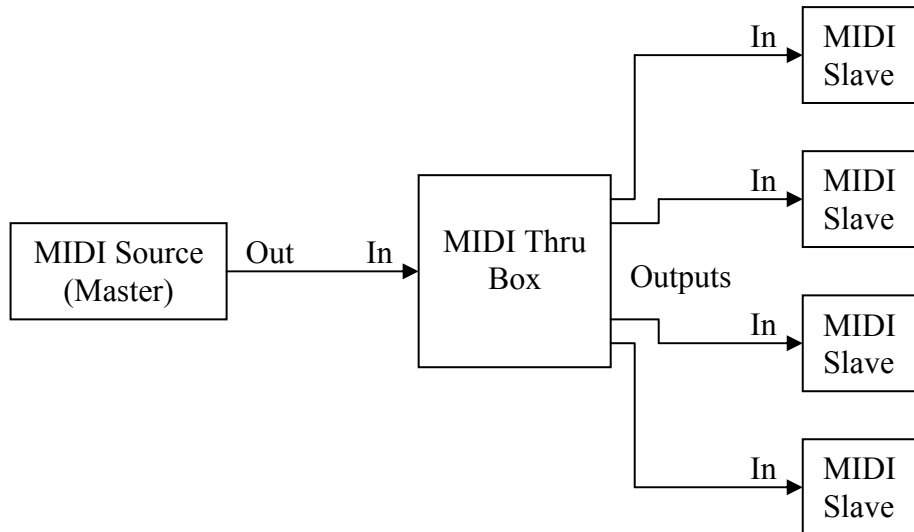
MIDI devices such as a master keyboard, sequencer, drum machine etc.. typically only have one output and possibly a MIDI thru port. A MIDI communication signal is really a current loop so you cannot reliably parallel MIDI connections, so a MIDI out can only drive a single MIDI in. Our MIDI Thru boxes take a MIDI in signal and generates between 4 and 8 exact copies of the MIDI In signal simultaneously and actively drives these to the outputs. Some MIDI thru boxes do not require a power supply but these can have limitations and restrictions such as cable connections, master signal quality / drive voltage etc.. The Technobots Thru Boxes require a 5V dc power supply (included) to power the internal active electronics and thus not depend on the compliance of the master signal and in turn boost the signal to the full 5V again for reliable re-transmission to the MIDI slave devices.

### Chain Method



Chain method can introduce delays (signal latency) to the MIDI signal especially with chains longer than 2-3 slaves. Also requires slave units to be powered up to reach subsequent slaves.

## Thru Box Method



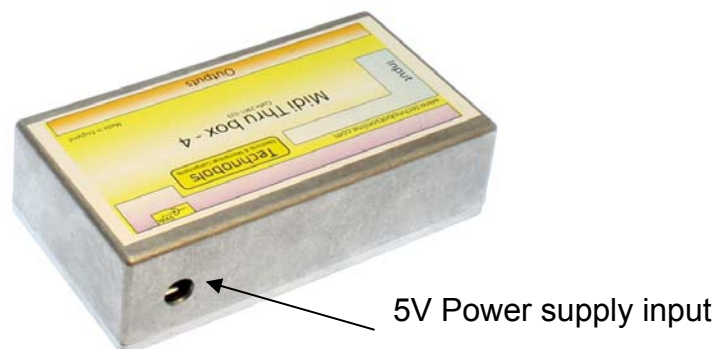
The Star approach - all MIDI slave units receive a clean boosted signal at the same time. Technobots MIDI Thru boxes can drive up to 8 slave units at once. Our MIDI Thru boxes can also be cascaded where you need to drive more than 8 slave units.

## MIDI Thru Box – 4



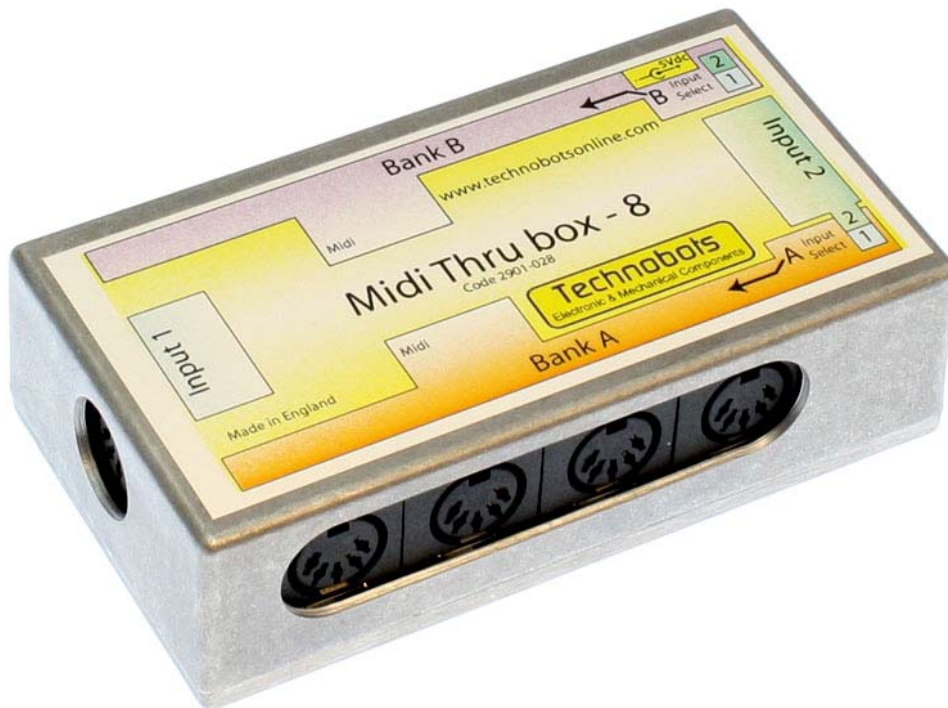
The MIDI Thru box – 4 can drive up to 4 slave MIDI devices from the one input signal. These thru boxes are very straightforward to use, simply plug a lead in from the master MIDI signal out (or thru if needed) to the thru box input using a standard 5-pin 180° DIN plug lead. Connect the thru box outputs to the IN sockets on the MIDI slave units again using standard 5-pin 180° DIN plug leads.

Connect the 5V power supply (included) to the socket on the rear (change the mains adaptor head to suit the wall socket in your country) and plug into the mains.



That's it, you are ready to go. The thru box draws very little power just 10-30mA and the adaptor is also very efficient so energy consumption is negligible. Please note that the power supply must be 5V dc regulated, damage to the thru box electronics may occur if an incorrect voltage is used.

## MIDI Thru Box – 8



The MIDI Thru box – 8 can drive up to 8 slave MIDI devices from the one input signal or two banks of 4 slave MIDI devices from 2 inputs. The choice is made using the recessed switches located at input 2 end of the Thru box.

The MIDI Thru box -8 has two banks of outputs A & B, each bank can be linked to either Input 1 or Input 2 by means of the recessed switches:



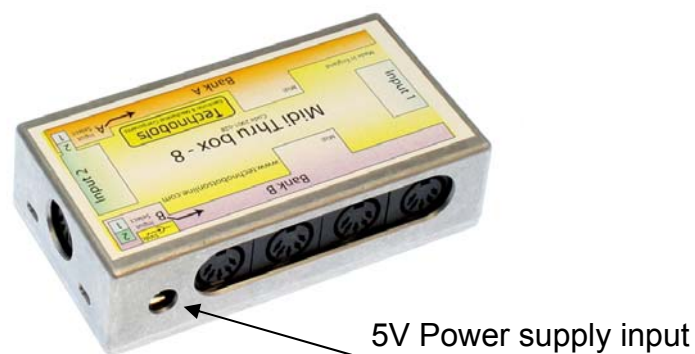


Viewing from the end, moving the switch to the left selects input 1, to the right input 2. To move the switch, use the tip of a pen or small screwdriver etc..

If a 1-In 8-Out thru box is required, move both switches to the same input number and connect that input to the master MIDI device output using a standard 5-pin 180° DIN plug lead.

If two 1-In 4-Out thru boxes are required, move the switches to different input numbers and then connect the respective thru box input to each of the master MIDI devices.

Connect the 5V power supply (included) to the socket on the rear change the mains adaptor head to suit the wall socket in your country) and plug into the mains.



That's it, you are ready to go. The thru box draws very little power just 10-30mA and the adaptor is also very efficient so energy consumption is negligible. Please note that the power supply must be 5V dc regulated, damage to the thru box electronics may occur if an incorrect voltage is used.

This model also includes red LED's to indicate when a MIDI message is sent out of each MIDI bank.



## Specifications

	MIDI Thru Box-4	MIDI Thru Box-8
Input Channels	1	1-2
Output Channels	4	4-8
MIDI Message Indicators	No	Yes, Bank A & Bank B
Thru Box Input Voltage	5V dc (< 30mA)	5V dc (< 30mA)
Mains Adaptor Voltage	100-240Vac, 50-60Hz	
Thru Box Power Input Socket	2.1 x 5.5 x 10mm Socket	
Dimensions	111 x 60 x 31mm	

## Warranty

Our MIDI Thru boxes are covered against failure due to manufacturing defects for a period of 1 year from the date of purchase. Claims under this warranty should be made through the retailer where the thru box was purchased or at Technobots if purchased direct.

## Technical Support

For technical support, visit [technobotsonline.com](http://technobotsonline.com), click on the 'Support' tab and follow the instructions provided there.

Visit [technobotsonline.com](http://technobotsonline.com) for over 5,500 products ranging from electronic components through mechanical components to specialist products including MIDI products.