



**Quadra Thru**

**MultiVoltage**

## **OPERATING INSTRUCTIONS**

MIDI Solutions MultiVoltage Quadra Thru Operating Instructions M515-100

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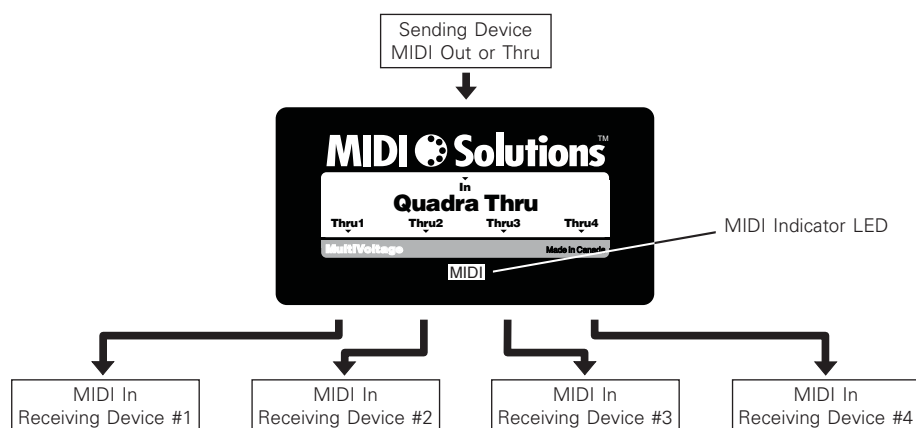
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## INTRODUCTION

Thank you for purchasing the MIDI Solutions MultiVoltage Quadra Thru.

The MIDI Solutions MultiVoltage Quadra Thru provides four MIDI Thru outputs from one MIDI input, allowing additional MIDI outputs to be added at any point in the MIDI chain. Active circuitry cleans up any skewing of the data bits that has occurred at the input, resulting in accurate output signals. The MIDI Solutions MultiVoltage Quadra Thru is MIDI-powered and requires no batteries or power supply to operate. It is compatible with products that follow both the 5V and 3.3V MIDI specifications.



## CONNECTIONS

Connect the MIDI Out or Thru of the sending MIDI device to the MIDI In of the Quadra Thru. Connect **Thru1**, **Thru2**, **Thru3**, and **Thru4** of the Quadra Thru to the MIDI Ins of the receiving MIDI devices. The number of MIDI Solutions products that can be chained together is dependent on the specifications of the MIDI output port supplying power – for more information see the MIDI INDICATOR LED section. Since some products make use of unused pins 1 and 3 to pass phantom power, connections to these pins are provided between the MIDI In and **Thru1** jacks. These pins are not connected to the Quadra Thru's internal circuitry. It is recommended that the current passing through these pins be limited to 1 amp.

## OPERATION

All MIDI messages appearing at the Quadra Thru's MIDI input are sent to its MIDI Thru outputs **Thru1**, **Thru2**, **Thru3**, and **Thru4**.

## MIDI INDICATOR LED

The MIDI Indicator LED will light as soon as the sending device is turned on, and flashes briefly whenever MIDI data passes through the unit. If the Quadra Thru's operating voltage drops below the threshold at which it is able to provide a MIDI standard drive current of 5 mA, its LED will produce a steady on/off warning flash. After rising above this threshold the LED will continue to produce a steady on/dim flash for 10 seconds. Since the voltage always rises above this threshold on power up, a steady on/dim flash will always be visible for 10 seconds; during this time the unit is operating normally and providing the standard drive current. If the Quadra Thru's operating voltage is below 4V its LED will produce a dim flash every four seconds, this signal is for diagnostic purposes and does not affect its operation.

## **WARRANTY**

MIDI Solutions Inc. warrants this product to be free from defects in material and workmanship for a period of one (1) year from date of purchase. This warranty is void if the product has been damaged by accident, misuse, alteration, unauthorized repairs or other causes not arising out of defects in material or workmanship. Under no circumstances will MIDI Solutions be liable for any loss of profits, benefits, time, interrupted operation, commercial loss, or consequential damages arising out of the use or inability to use the product. MIDI Solutions specifically disclaims any implied warranties of merchantability and fitness for a particular purpose. If the product requires service, a Return Merchandise Authorization (RMA) number must be obtained from MIDI Solutions and the product must be shipped prepaid to a specified Service Center. MIDI Solutions will repair or replace the product at our discretion and will pay return shipping fees. The customer is responsible for any damage or loss sustained during shipment in any direction.