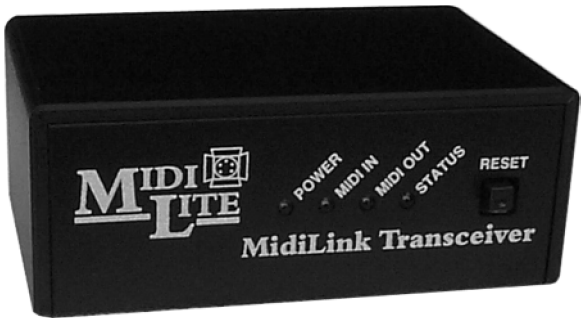
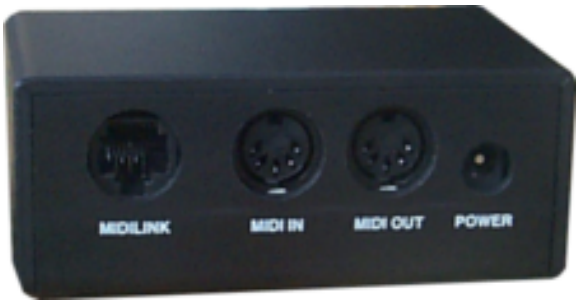
MidiLink RJ Transceiver
Operating Instructions

MidiLink Transceivers are used in A/B pairs.



Front Panel

Power LED	indicates power
MIDI In LED	blinks with MIDI In Activity
MIDI Out LED	blinks with MIDI Out Activity
Status LED	The Status LED will be lit on the "A" transceiver when the "B" transceiver is attached and powered; The "B" transceiver's status LED will always be lit when powered.
Reset Button:	The reset switch is only included on models to be used with the MidiLite II dimmer system. This is not used in standalone MIDI operation.



Rear Panel

MIDILINK:	RJ45 connector for connecting to the other MidiLink transceiver.
MIDI IN:	MIDI data in to send to the other MidiLink..
MIDI OUT:	MIDI data out from the other MidiLink.
POWER:	Use only an approved 9vdc, 300-500ma, tip positive supply.

Using Pairs of MidiLink Transceivers (A/B)
You can use a pair of MidiLink transceivers to send MIDI data bi-directionally up to 4,000 feet using Cat 5 (4 twisted pairs) cabling. Make sure to always use a "A" transceiver with a "B" transceiver. This is noted on the bottom of the transceiver. Connecting two "A" or two "B" transceivers together will not work properly.

Put the "A" transceiver at the control end of things and the "B" transceiver with the equipment you are controlling. Although the MidiLinks transmit MIDI bi-directionally, putting the "B" transceiver at the remote side makes better use of the Status LED. The "A" transceiver's Status LED will only be lit if the "B" transceiver is attached and powered up.

MidiLink Cables
Build Your Own Cables - using standard RJ45 plugs, you can make your own cables using Cat 5 twisted pair wire, using the following color code (standard CAT5 color code):

MidiLink Cat 5 Color Code
pin 1 = White / Orange (TX +)
pin 2 = Orange (TX -)
pin 3 = White / Green (RX +)
pin 4 = Blue (Status Gnd)
pin 5 = White / Blue (Status +5v)
pin 6 = Green (RX -)
pin 7 = White / Brown (Reset Gnd)
pin 8 = Brown (Reset +5v)
** note: reset pair not used in standalone operation*

Adapters
You can also build your own adapters to do single or dual direction MIDI over XLR cabling, etc. Please contact us for detailed information if you are wanting to do this.

IMPORTANT NOTE!
Although the MidiLink RJ transceivers are designed to be used with RJ45 connectors and CAT 5 cabling, it is not an ethernet signal and should not be attached to hubs, switches, computers or other networking equipment.

The MidiLink transceivers convert the MIDI signal into a RS-485 signal for transmission over long distances on twisted pair cabling.

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