Job Name:	Catalog #:
Date:	Notes:

eDIN DMX MERGER INTERFACE

#1007

PRODUCT OVERVIEW

The eDIN #1007 combines two DMX512 input sources into a single DMX512 output stream. Merge channel-by-channel on a highest-takes-precedence (HTP) basis, or prioritize one input over the other. Priority may occur automatically on loss of signal, or through use of an external switch. Alternately, one input may be appended to the other using a user-defined offset. Modules may be cascaded up to four levels.

FEATURES

- DMX512 offset address and operating mode may be set from front panel interface
- Automatically switch from one input to another on loss of signal
- Highest-takes precedence merge on a channel-by-channel basis
- External A/B contact closure option to switch between sources
- Status quo option to maintain output after signal loss
- Option to append one source to another at a user-defined offset
- Multi-level cascading of modules is allowed
- Indicator LEDs for power, and DMX input status
- Pluggable terminal block connections accept solid or stranded wire between #26 and #16 AWG
- Passive DMX512-A data through connection for each input
- Data and power easily daisy-chained between modules
- Termination switch for each input
- User-initiated diagnostics and test modes

SPECIFICATIONS

- 1500V opto-isolation between input and output ports
- 250V fault protection on input and output ports
- Input operating voltage: 9-30 VDC
- 6W power consumption
- Operating conditions: 0-50°C; 10-90% relative humidity, non-condensing

STANDARDS COMPLIANCE

- ANSI E1.11 DMX512-A(2008)/USITT DMX512(1990)
- CE/FCC
- RoHS 2002/95/EC
- Class 2 Low Voltage

WEIGHTS AND DIMENSIONS

- 0.70 lbs (0.316 kg)
- 3.6"W x 4.5"L x 1.5"H (91mm x 115mm x 38mm)

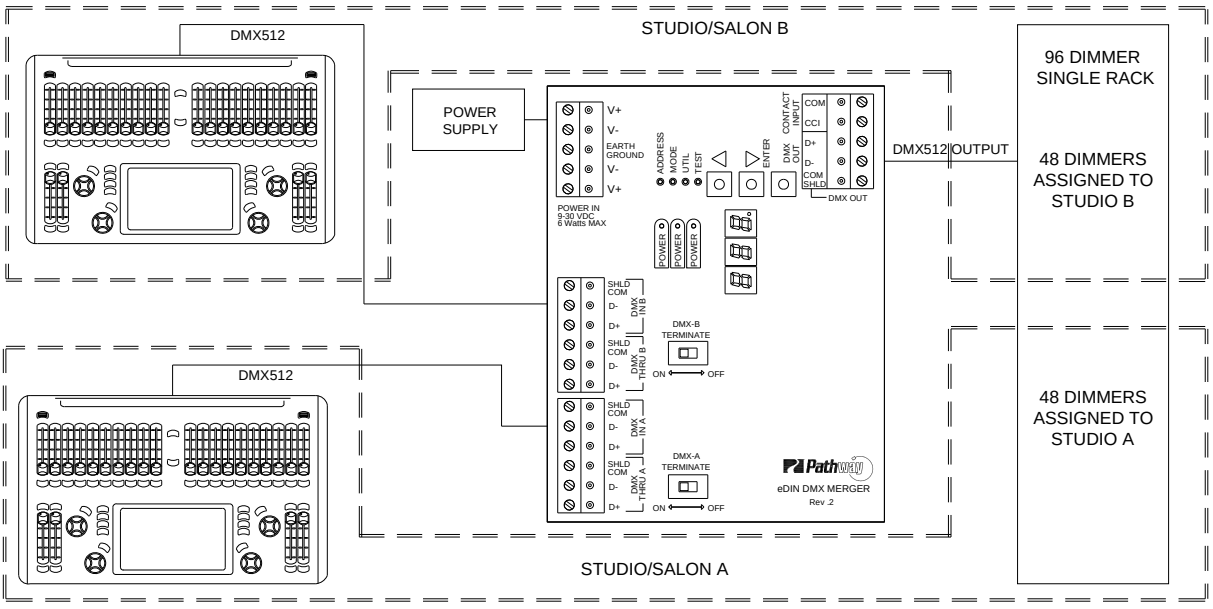
INCLUDED FURNISHINGS

- DIN tray (housing) with end caps
- 12" (300mm) x 35mm DIN rail
- Installation/Operations manual

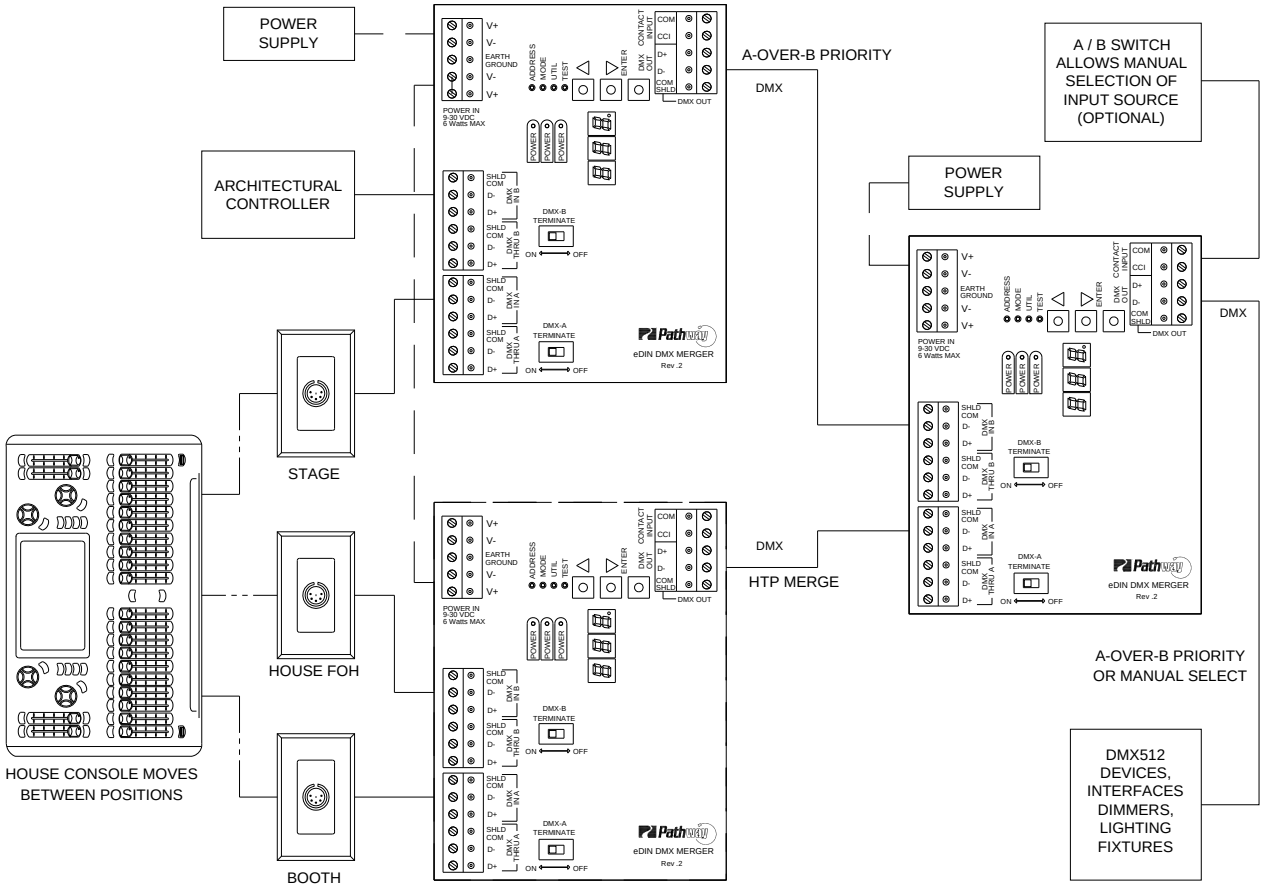
OPERATING MODES

- **Mode 1 : HTP Merge with 2 second status quo -** DMX Input A and DMX Input B are merged, using a highest-takes –precedence comparison on a channel by channel basis. If DMX a channel 5 is at 10% and DMX B channel 5 is at 50%, the DMX output for channel 5 will be 50%. DMX Input B signal will be merged starting at the channel number specified by the DMX Address Offset. If all DMX is lost, the last DMX look will be held for 2 seconds, then stop.
- **Mode 2 : HTP Merge with 5 minute status quo -** DMX Input A and DMX Input B are merged, using a highest-takes –precedence comparison on a channel by channel basis. DMX Input B signal will be merged starting at the channel number specified by the DMX Address Offset. If all DMX is lost, the last DMX look will be held for 5 minutes, then stop.
- **Mode 3 : HTP Merge with offset and 2 second status quo -** Input channels on DMX below the DMX Address Offset will be ignored. Channels above and including the offset channel will be merged with their respective input channels from DMX A, using a highest-takes -precedence comparison on a channel-by-channel basis. If all DMX is lost, the last DMX look will be held for 2 seconds, then stop.
- **Mode 4 : HTP Merge with offset and 5 minute status quo -** Input channels on DMX below the DMX Address Offset will be ignored. Channels above and including the offset channel will be merged with their respective input channels from DMX A, using a highest-takes -precedence comparison on a channel-by-channel basis. If all DMX is lost, the last DMX look will be held for 5 minutes, then stop.
- **Mode 5 : Auto Backup with 2 second status quo -** DMX Input B is ignored as long as signal is present on DMX A. If DMX A is lost, the output will immediately switch to DMX Input B. If all DMX is lost, the last DMX look is maintained for 2 seconds, then stops.
- **Mode 6 : Auto Backup with 5 minute status quo -** DMX Input B is ignored as long as signal is present on DMX A. If DMX A is lost, the output will immediately switch to DMX Input B. If all DMX is lost, the last DMX look is maintained for 5 minutes, then stops.
- **Mode 7 : External Backup using Contact Closure Input, 2 second status quo -** DMX Input B is ignored until the contact closure input is closed (pins 4 and 5 on DMX OUT shorted). When the contact input is opened, DMX Input A is immediately restored. Output source is solely controlled by the switch. If all DMX input is lost, the last DMX look is maintained for 2 seconds, then stops.
- **Mode 8 : External Backup using Contact Closure Input, 5 minute status quo -** DMX Input B is ignored until the contact closure input is closed (pins 4 and 5 on DMX OUT shorted). When the contact input is opened, DMX Input A is immediately restored. Output source is solely controlled by the switch. If all DMX input is lost, the last DMX look is maintained for 5 minutes, then stops.
- **Mode 9 : Append with 2 second status quo -** DMX Input B is appended to DMX Input A starting with the DMX Address Offset channel. The appended channels are not merged. If DMX input is lost, the last DMX look is maintained for 2 seconds then stops.
- **Mode 10 : Append with 5 minute status quo -** DMX Input B is appended to DMX Input A starting with the DMX Address Offset channel. The appended channels are not merged. If DMX input is lost, the last DMX look is maintained for 5 minutes then stops.
- **Mode 11 : Test -** Fades the channel identified as the DMX Address Offset channel up and down. DMX Input A and B are ignored.
- **Modes 12—15 :** Reserved for future use.

APPEND EXAMPLE:



MERGE/PRIORITY RISER



DMX512/RDM PIN OUT:

XLR PIN #	PURPOSE
1	Shield
2	Data - (complement)
3	Data + (true)
4	Data - (pair 2 complement)
5	Data + (pair 2 true)

ORDERING INFORMATION

PART #	DESCRIPTION
1007	eDIN Merger, 2-in/1-out
ACCESSORIES	
1001-30	24VDC - 30W DIN-mountable Power Supply
1103	Rack-mount Panel Kit (2RU)
1105	Small eDIN Enclosure (NEMA1) with 9.5" of vertical DIN rail space
1106	Large eDIN Enclosure (NEMA1) with 19.5" of vertical DIN rail space
1107	Large eDIN Enclosure (NEMA1) with three rows of 9.5" horizontal DIN rail space
4000	eDIN Enclosure Assembly Service