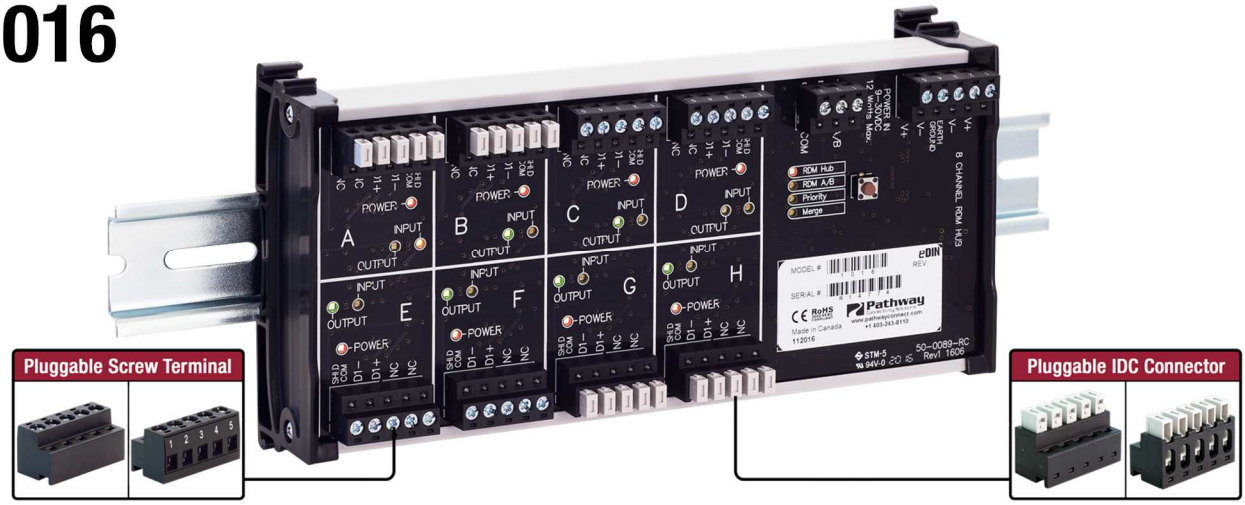
Job	Catalog #:
Date:	Notes:

eDIN DMX/RDM HUB

#1016



PRODUCT OVERVIEW

The eDIN #1016 DMX/RDM Hub brings flexibility to single universe DMX512 distribution systems. Through the use of automatic signal sensing across four operating modes, any port may detect incoming DMX signals and act as an input; or two inputs may be merged; the user may choose between inputs; or a priority scheme may be invoked. The 1016 is RDM discoverable and configured.

FEATURES

- Eight bi-directional ports
- Four operating modes
- Simple UI for mode selection
- Pluggable screw terminal connector block for power IN and OUT
- Two sets of pluggable terminal blocks for all DMX512 connections to support both shielded twisted pair and CAT5/6
- Automatically locates incoming DMX signal and routes according to current mode
    - Automatically switch between inputs on priority
    - External A/B switch for user selection of input
    - Merge two inputs to remaining outputs
    - Act as automated signal patch bay
- Auto-termination of inputs
- Port direction LED indicators, as well as power and function
- E1.20 Remote Device Management is supported in routing modes
- Hold last look time and output speed user-settable by RDM
- Multi-level cascade of modules permitted
- Pluggable terminal block connections accept solid or stranded wire between #26 and #16 AWG
- Power easily daisy-chained between modules
- Firmware field-upgradable using RDM (requires Pathway Pathport node and RDM utility program)

SPECIFICATIONS

- 250V fault protection on input and output ports
- Input operating voltage: 9-30 VDC
- 5W power consumption
- Operating conditions: -10° to +50°C (14° to 122°F); 10-90% relative humidity, non-condensing

STANDARDS COMPLIANCE

- ANSI E1.11 DMX512-A(2008)/USITT DMX512(1990)
- ANSI E1.20 RDM(2010) - Remote Device Management
- RoHS 2002/95/EC
- Class 2 Low Voltage

WEIGHTS AND DIMENSIONS

- 0.70 lbs (0.316 kg)
- 3.6"W x 8.0"L x 1.5"H (91mm x 115mm x 38mm)

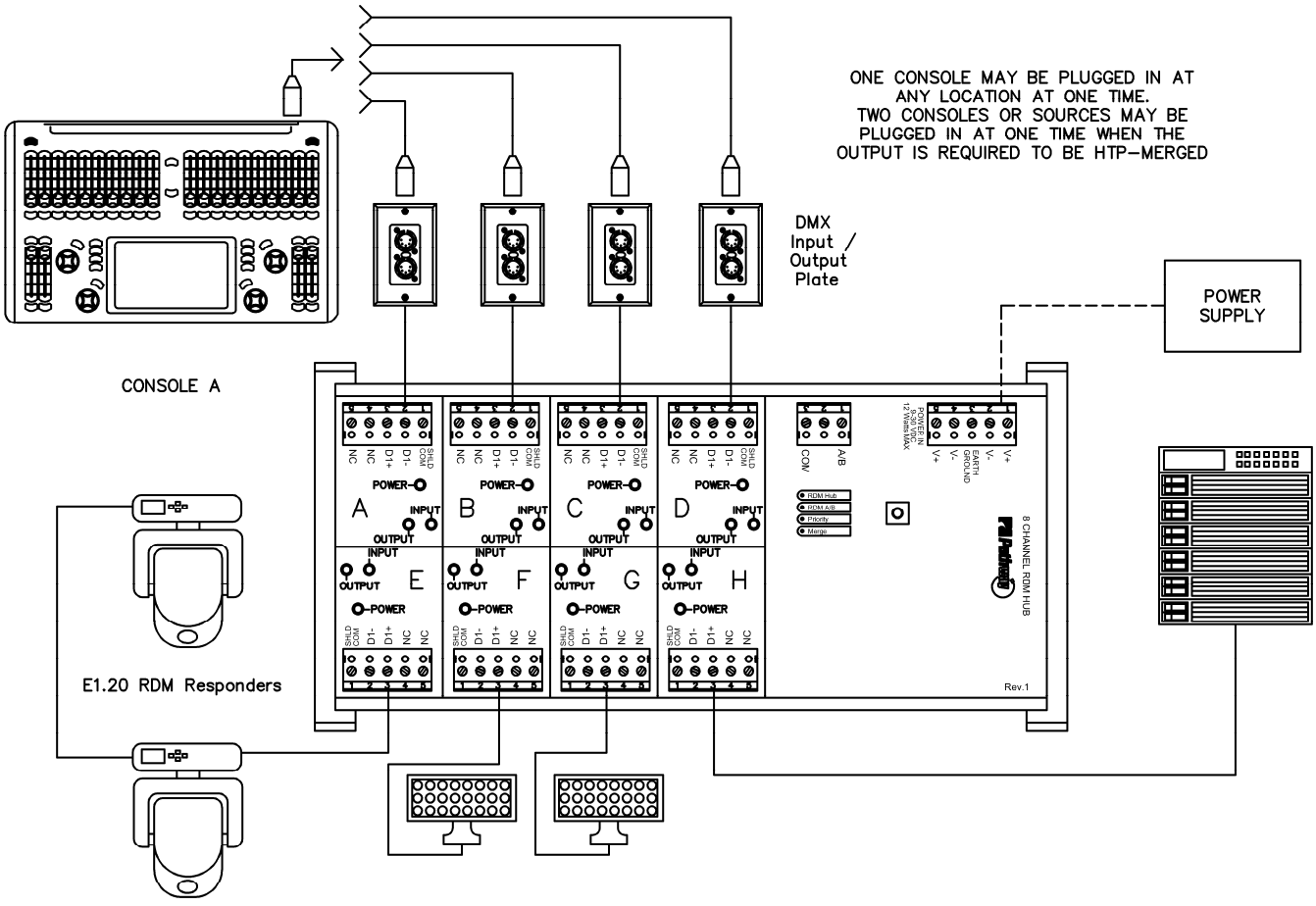
INCLUDED FURNISHINGS

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

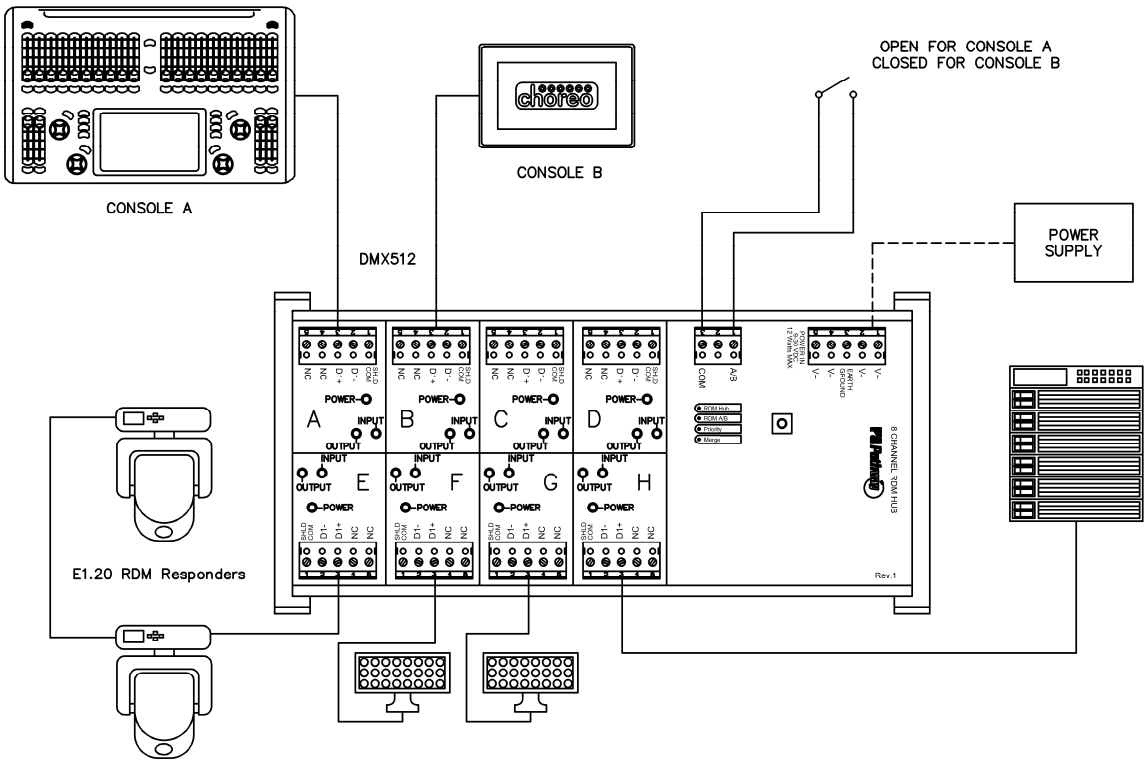
OPERATING MODES

- Mode 1 : RDM Hub
  Module detects and latches to a DMX input applied to any port. Automatically routes DMX signal to remaining ports as outputs. If a second source is applied, that source is ignored until the initial source stops. Module acts as RDM responder and proxy. Any downstream RDM responder may be discovered and configured using an RDM-enable console or controller.
- Mode 2 : RDM A/B Select
  Allows user selection, through use of dry contact closure, of input signal arriving at Port B to be selected and routed to the remaining ports, over signal arriving as input at Port A. When dry contact is open, the signal arriving at Port A will be routed. Ideal for switching between consoles on the fly. Module acts as RDM responder and proxy. Any downstream RDM responder may be discovered and configured using an RDM-enabled console or controller.
- Mode 3 : Priority
  Provides predictable signal priority arrangements of DMX sources. Port A is given highest priority, Port H lowest. Module automatically senses DMX input on any port, and will route signal arriving at the highest priority port to the remaining ports as outputs. Module will automatically switch to any new signal arriving at a higher priority port, or fall back to the next lower priority signal when a signal stops. Module acts as RDM responder. However, proxy functions are disabled and downstream RDM responders are not discoverable.
- Mode 4 : Merge
  Provides HTP (highest-takes-precedence) merging of two DMX sources, regardless of which ports are used as inputs. Should more than two inputs be active, the sources to be merged will be determined by the Priority mode order-of-precedence. Module acts as RDM responder. However, proxy functions are disabled and downstream RDM responders are not discoverable.

APPLICATION RISER



A/B SELECT



DMX512/RDM PINOUT : FOR SHIELDED TWISTED PAIR

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

DMX512/RDM PINOUT : FOR CAT 5/6

XLR PIN #	Cat5/6 Color and Pin #	PURPOSE
3	1 - White/Orange	Data 1 + (true)
2	2 - Orange	Data 1 - (complement)
5	3 - White Green	Data 2 + (true)
4	6 - Green	Data 2 - (complement)
-	4 - Blue	Not used - do not connect
-	5 - White Blue	Not used - do not connect
1	7 - White/Brown	Shield/COM
1	8 - Brown	Shield/Com

ORDERING INFORMATION

PART #	DESCRIPTION
1016	eDIN DMX/RDM Hub, 8 outputs
ACCESSORIES	
1001-30	24VDC - 30W DIN-mountable power supply
1103	Rack-mount panel Kit (2RU) with two 16.5” (420mm) sections of DIN rail
1105	Small eDIN System Enclosure (NEMA1) with 9.5” (240mm) of vertical DIN rail
1106	Large eDIN System Enclosure (NEMA1) with 19.5” (495mm) of vertical DIN rail
1107	Large eDIN System Enclosure (NEMA1) with three horizontal 9.5” (240mm) horizontal DIN rail
1108	Small eDIN System Enclosure (NEMA1) with two horizontal 9.5” (240mm) DIN rail
1109	Expanded eDIN System Enclosure (NEMA1) with three vertical 24”(610mm) DIN rail