

6-PORT Merger/Manager (6 IN, 1 OUT) Specifications

1.0 J-PACK - GENERAL

- 1.1 The **DMX 6-PORT** Merger shall be capable of combining up to six independent DMX512 data streams into a single DMX output universe.
- 1.2 The **DMX 6-PORT** shall be available in portable (**DMX-6PM**) and installation (**DMX-6PIM**) versions. Multiples of either version shall be cascable to support a large number of DMX inputs for either merging or isolation applications.
- 1.3 **DMX 6-PORT's** shall each contain an LCD user interface for ease of set up and monitoring. All programming shall be via a user-friendly, intuitive and self-prompting menu structure. No PC or special software is required.
- 1.4 **DMX 6-PORT's** shall have individual LED indicators of power and all DMX input and output lines. Active DMX data shall illuminate the corresponding LED. Loss of DMX shall extinguish the corresponding LED.
- 1.5 Model **DMX-6PIM** shall contain wire management allowances and a removable isolation barrier between the line voltage (power supply) section and the data section.
- 1.6 All **DMX 6-PORTS** shall have a USB "TECH-PORT" for *PC monitoring of all DMX input and output levels.
- 1.7 Model **DMX-6PIM** will operate with a voltage input range of 90-264VAC at 47Hz to 63Hz, thereby permitting global application. The **DMX-6PIM** power supply shall be UL approved and short circuit, overload and over voltage protected.
- 1.8 Model **DMX-6PM** shall be available with a choice of DMX input and output connectors including RJ45, "break away" terminal block and gold plated 5 pin XLR connectors. An optional 19" rack mount kit shall permit mounting in standard 1RU.

2.0 CONTROL PCB

- 2.1 **DMX 6-PORT's** shall employ the "system-on-a-chip" advanced "3000 Series" digital technology. The control electronics shall be contained on the Merger (6-PORT) and it's associated User Interface Board (UIB).
- 2.2 The DMX inputs and output shall comply with USITT DMX512-A (ANSI E1.11 - 2008) standard protocol for digital data control.
- 2.3 State-of-the-art design and high speed processor shall permit "real-time" DMX merging/combining of all six DMX inputs at 44 packets per second. Latency shall be negligible.
- 2.4 All DMX inputs shall be fully opto-isolated to a minimum of 2,500Vrms.
- 2.5 All DMX inputs and output shall employ auto-resetting ("self-healing") polyswitch fuse protection to a minimum of 240V.
- 2.6 Standby (idle) mode compliance with the International Energy Agency's "One Watt Initiative" standby power requirement. Please refer to U.S. Executive Order #13221. Processor standby power on DMX 6-PORT shall not exceed 1 Watt.
- 2.7 **DMX 6-PORT's** shall employ an EEPROM module to permit ease of firmware upgrade.

2.8 **DMX 6-PORT's** shall support the following menu items:

1. **DMX TYPE** - Selection three DMX data rates of transmit on the DMX output.
2. **CH CTRL** - Enable/disable the power control to any/all of the six DMX inputs.
3. **TECH PORT** - Enable/disable the USB port for DMX monitoring via PC*.
4. **RTIME** - ss hhhh:mm. Display the total run time in hours (hhhh), minutes (mm) and seconds (ss).
5. **HARD-KEY** - View the microcontroller's unique six-character hard-key code.
6. **SERIAL#** - View the unique eight-character silicone serial number.
7. **VERSION** - Display the software version.
8. **EEPROM** - Display the type of EEPROM module, parameter or firmware.
9. **FW LOAD** - Allows firmware load from the memory module.
10. **LCD VIEW** - Adjust the contrast of the LCD Display for optimum viewing.

2.9 **DMX 6-PORT's** employ a green LED for 12VDC power and a yellow LED for DMX data on each of the DMX inputs (RxD) and DMX output (TxD). 12VDC for powering external devices shall be limited to a maximum of 30 watts.

2.10 All DMX inputs shall have end-of-line, 100 ohm, self-termination.

2.11 A reset push-button shall be included on the face panel of all 6-PORT models. Resetting the unit, whether by the reset button or power-up, shall not affect any stored parameters or presets, and dimmer outputs shall automatically return to their former status.

2.12 All face panel buttons shall be blue LED back-lit with adjustable intensity.

2.13 All printed circuit boards (PBC's) shall be FR4/G10 with a UL 94V-0 Flame Class Rating.

Specifications subject to change without notice.

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