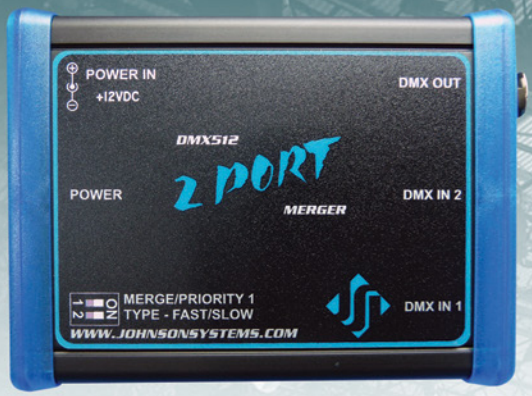
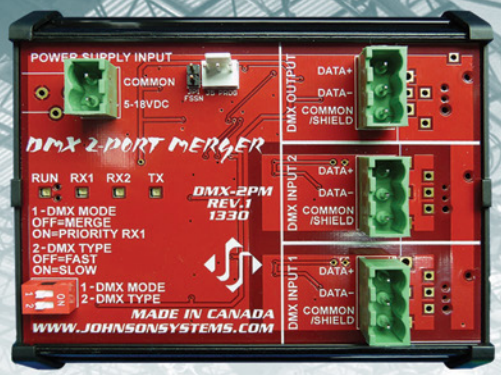
DMX 2-PORT MERGERS



Portable Version



Installation Version

JSI's DMX 2-PORT MERGERS combine two DMX512 data lines into one DMX512 universe providing cost-effective DMX input expansion for temporary and hardwired installations. Input DMX data streams can be combined in a "Highest Take Precedence" (HTP) or selected as "Priority" for backup source or automatic lockout applications. Multiple units can be cascaded together for larger installations.

Available in a choice of portable small enclosure or DIN rail for cabinet mounting, these mergers represent the highest quality for the money available.

- Two opto-isolated DMX512 inputs, one opto-isolated DMX512 output.
- All inputs and outputs employ fast acting, "self-healing" fuse protection.
- Inputs can be selected for "Priority" or "Merge" operation.
- Selectable speed choice of "Fast" or "Slow" DMX.
- Power and data receive LED indicators.
- Unique power saving standby (idle) mode reduces power consumption to less than 1 Watt, a "green" power management product.
- Up to 10 year product warranty available.

GO GREEN

These products are energy efficient and consume less than 1 watt. Compliance with the International Energy Agency's "One Watt Initiative".

JOHNSON SYSTEMS INC.
"PROFESSIONAL LIGHT CONTROL PRODUCTS"

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DMX 2-PORT MERGER CHARACTERISTICS

Power Supply Requirements
DMX-2PM = 12VDC (adapter included).
DMX-2PM-DIN (installation version) = 12VDC at 150mA.

Environment
Temperature Range: 23°F (-5°C) to 104°F (40°C) ambient.
Humidity Range: 0% to 90% non-condensing.

Isolation
2000 Vrms minimum per DMX input. Auto-resetting 240V polyswitch fusing of all DMX inputs and output.

Physical
DMX-2PM = 4" x 3" x 1.75" (10 cm x 7.6 cm x 4.4 cm).
DMX-2PM-DIN = 4" x 3.5" x 2" (10 cm x 8.9 cm x 5 cm).

Weight
DMX-2PM = 0.48 Lbs. (217g).
DMX-2PM-DIN = 0.21 lbs. (94g).

Material
DMX-2PM = Aluminum extrusion with aluminum end plates. Black anodized.
DMX-2PM-DIN = Plastic DIN rail extrusion. Black.

SPECIFICATIONS

1.0 DMX 2-PORT - GENERAL

1.1 DMX 2-PORT MERGERS shall be capable of combining up to two independent DMX512 data streams into a single DMX output universe.

1.2 DMX 2-PORT MERGERS shall permit DMX input management selection for “Priority” or “Merge” operation via dip switch.

1.3 DMX 2-PORT MERGERS shall permit DMX input speed selection at either “Fast” (44 packets per second) or “Slow” (30 packets per second).

1.4 DMX 2-PORT MERGERS shall be available in portable (DMX-2PM) and installation (DMX-2PM-DIN) versions. Both versions shall be cascadable to support a larger number of DMX inputs.

1.5 DMX 2-PORT’s MERGERS shall have individual LED indicators for power as well as DMX input and output lines. Active DMX data shall illuminate the corresponding LED. Loss of DMX shall extinguish the corresponding LED.

1.6 DMX input/output termination shall be via gold 5-pin XLR on Model DMX-2PM and via premium quality “breakaway” connectors on the DMX-2PM-DIN.

1.7 Model DMX-2PM will operate with an external 12VDC adapter (included). The DMX-2PM-DIN shall require a 12 VDC @ 150mA source by others. .

2.0 CONTROL PCB

2.1 DMX 2-PORTS shall employ the "system-on-a-chip" advanced "3000 Series" digital technology. State-of-the-art design and high speed processor shall permit “real-time” DMX merging/combining of both DMX inputs at 44 packets per second. Latency shall be negligible.

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 DMX inputs and output shall be fully opto-isolated to a minimum of 2000Vrms.

2.4 DMX inputs and output shall employ auto-resetting (“self – healing”) polyswitch fuse protection to a minimum of 240V.

2.5 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 2-PORT MERGERS shall not exceed 1 Watt.

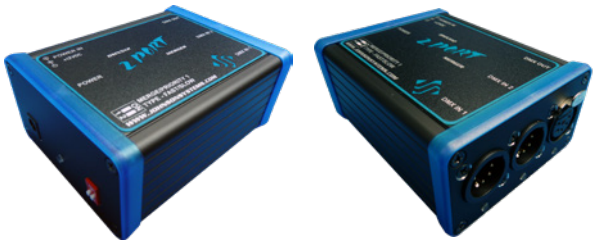
2.6 DMX 2-PORTS employ a green LED for 12VDC power and a yellow LED for DMX data on each of the DMX inputs (RxD) and DMX output (TxD).

2.7 DMX inputs shall have end-of-line self-termination.

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

Specifications subject to change without notice.

Model	Description
DMX-2PM	2-PORT DMX MERGERS in portable enclosure c/w power supply. 5 Pin XLR DMX connectors.
DMX-2PM-DIN	2-PORT DMX Installation MERGERS c/w DIN rail mounting hardware. Terminal block DMX connectors.



Model # DMX-2PM
4" x 3" x 1.75" (10 cm x 7.6 cm x 4.4 cm)

Model # DMX-2PM-DIN
4" x 3.5" x 2" (10 cm x 8.9 cm x 5 cm)

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