2-PORT Merger/Manager (2 IN, 1 OUT) 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 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.

JOHNSON SYSTEMS INC.

1923 Highfield Cres. S.E., Calgary, Alberta T2G 5M1 Canada
Phone: (403) 287-8003 · Fax: (403) 287-9003

info@johnsonsystems.com

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