



LUTRON QSW-DMX-IN Software License Instructions

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DMX Input Software License for Quantum

This license for DMX input software allows a DMX lighting stage board (or other DMX source) to control the levels of lights that are part of a Quantum Total Light Management system. Users continue to experience the benefits of Quantum Total Light Management (e.g., scheduled events, occupancy sensing, daylighting, wall-station control) while also maintaining flexible DMX control for setting up light levels during special events. This feature is intended for flexible, static lighting zone adjustment; it is not intended to manage continuously changing light levels (e.g., theatrical lighting).

Model Number

QSW-DMX-IN

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Features

- Supports up to 512 input channels per processor on a single universe.
- An input channel controls a single lighting zone in the system.
- DMX input control can be enabled and disabled on an area-by-area basis.
 - Enabling and disabling DMX is achieved by activating or deactivating the DMX scene in an area.
 - Enabling and disabling the DMX scene in an area can be activated through a timeclock event, contact closure input, or keypad button press.
- DMX control must be enabled by activating the specified DMX scene before DMX zone control can take place in that area. This can be accomplished via contact-closure input, wall station, keyswitch control, Quantum Vue or other programmable input.
- Supports zone chaining for partitioned spaces.
- Supports a sustained rate of up to five constantly changing channels at any one time.

Capabilities

- Adjusts a given zone level up to 10 times / second in response to DMX input.
- Supports a burst rate of up to 500 zone level adjustments / second for a maximum of 10 seconds.
- Each input channel can control a single lighting zone (dimmed or non-dimmed)

Requirements

- Requires a dedicated link on a Quantum processor that will be controlling zones using a DMX input. – Only one link per processor can be dedicated for DMX, with a maximum of 512 inputs on this link. – Each input can be mapped to only one zone. The zone must be in the same logical processor subsystem as the DMX input that is controlling it.
- When controlling the zones in an area from another source (e.g., a wall station, scheduled event, Quantum Vue software), the zones in that area will exit the DMX scene. To prevent this from happening, these sources must be locked or disabled.
- The lights in an area will not respond to DMX commands unless the DMX scene is active in that area.
- One license is required for each processor. The license is only required for processors that manage the zones being controlled via a DMX input.
- This license must be activated by Lutron Field Service.
- Requires Quantum version 3.1 or higher.

Limitations

- If daylighting is enabled on all scenes in an area, the DMX scene will also be daylighted
- DMX inputs cannot be mapped to 3-channel DMX zones or to a GRAFIK Eye QS zone.
- **The DMX input control is only compatible with the following Lutron lighting controllers:**
 - GP dimming panels
 - LP dimming panels
 - CCP dimming panels
 - XP switching panels

- Energi Savr Node 0–10 V- modules
- Energi Savr Node switching modules
- Energi Savr Node phase-adaptive modules
- EcoSystem devices connected directly to QP2 hubs

Note: DALI devices, EcoSystem devices connected to a GRAFIK Eye QS unit, and Eco System devices connected to an Energi Savr Node with EcoSystem unit cannot be controlled via the DMX input control feature.

Best Practices

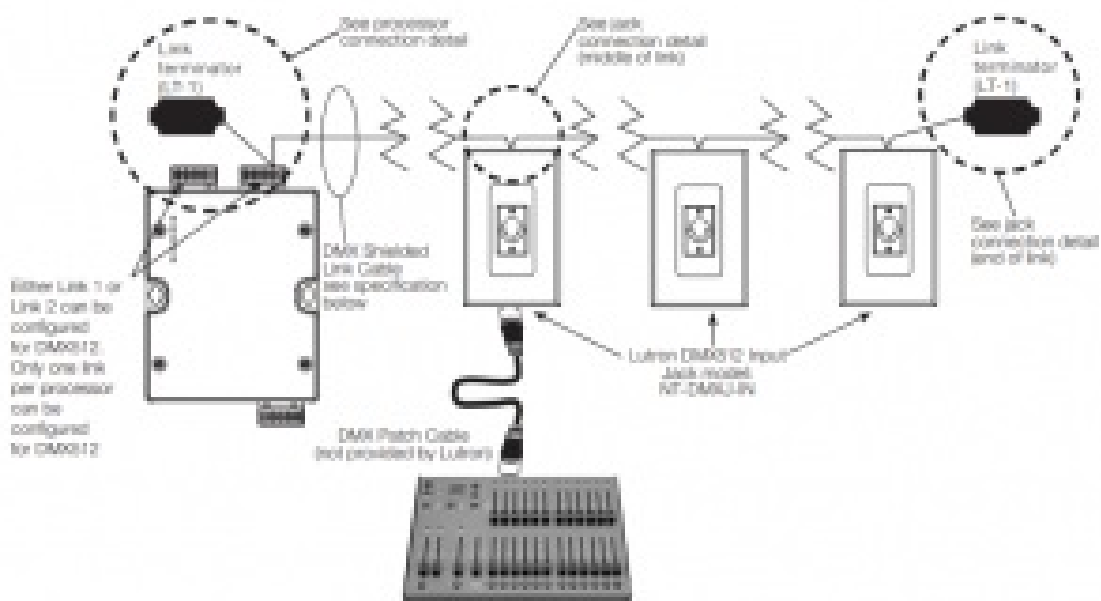
- See Application Note #592 Lutron Solutions for DMX512-A (www.lutron.com/TechnicalDocumentLibrary/048592.pdf)

SPECIFICATION SUBMITTAL

Job Name: _____	Job Name: _____
Job Name: _____	_____

Wiring

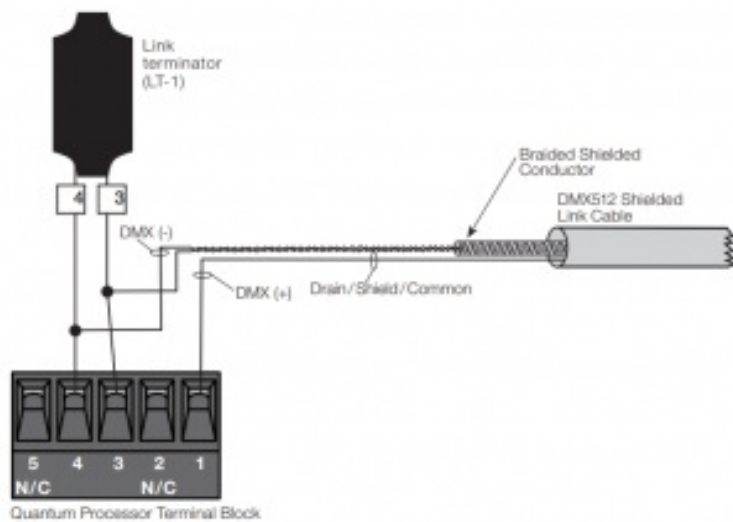
DMX512 Input Typical 1-Line Diagram



Note: If connecting more than one jack to the processor, only one DMX512 lighting control console can be connected to a link at the same time. If multiple consoles need to be connected at the same time, a merger should be used.

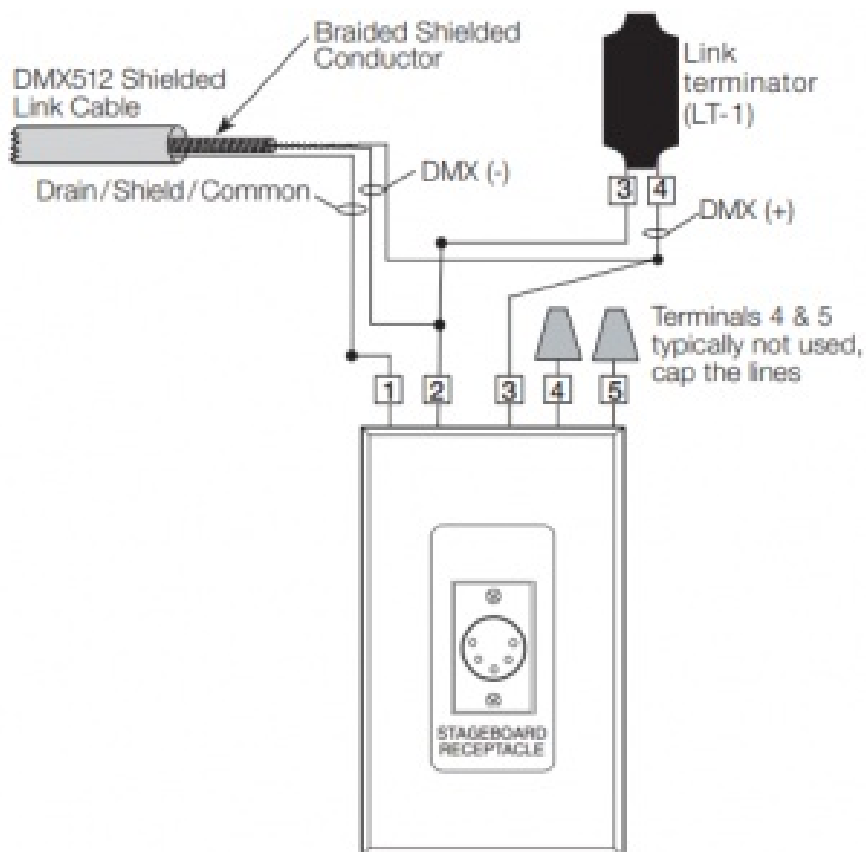
See Application Note # 592 (P/N 048592) for more information.

DMX512 Quantum Processor Connection Details

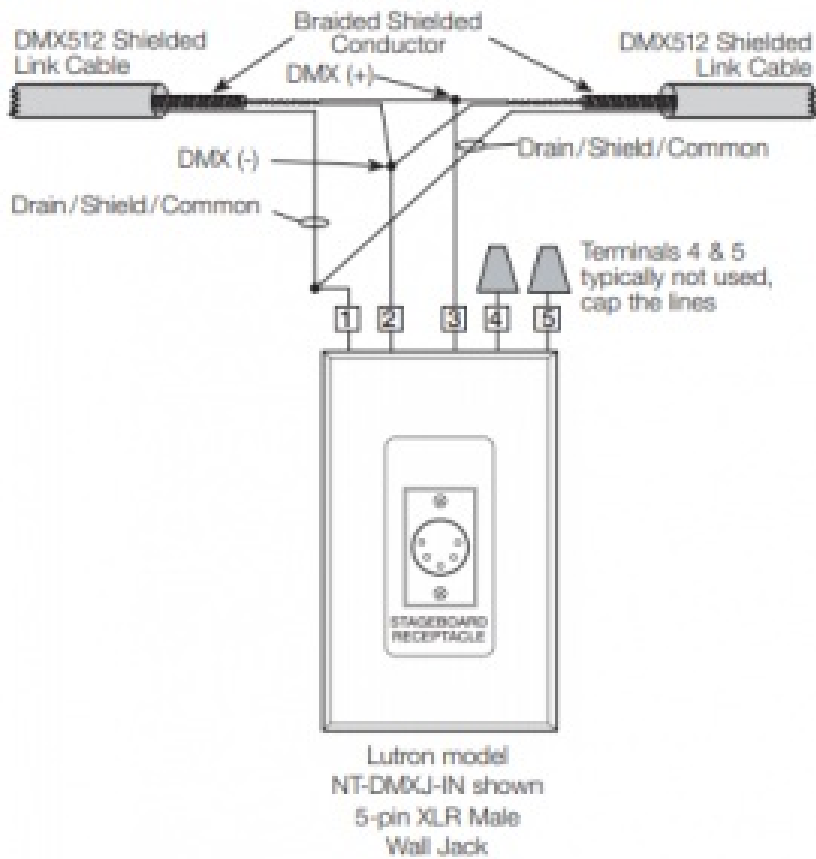


Wiring

Jack Connection Detail (End of Link)



Jack Connection Detail (Middle of Link)



Alternate XLR Jack Pinouts

Male	Female

DMX XLR Jack Pinout Standard

1. Drain/Shield/Common
2. DMX (-) Primary Link
3. DMX (+) Primary Link
4. DMX (-) Secondary Link
5. DMX (+) Secondary Link

DMX Cable Wiring Table

The table below provides information pertaining to Lutron-provided (optional) DMX cable and how it should be terminated. For third-party cable, consult with the manufacturer for their connection recommendations and always use shielded cable that complies with the ANSI E1.11-2008, USITT DMX512-A standard.

Manufacturer	Model	Signal Name	Wire Color	Lutron model NT-DMXJ-IN connection	Lutron Quantum Processor Connection
Lutron	GRX-CBL-DMX-250 or GRX-CBL-DMX-500	Drain / Shield / Common	Use braided wire that surrounds the twisted pairs	Pin 1 – Drain / Shield / Common (white with black stripe)	Pin 1 – Common
		DMX (-) Primary Link	White or pink	Pin 2 – DMX (-) Primary Link (red)	Pin 4 – _
		DMX (+) Primary Link	Black	Pin 3 – DMX (+) Primary Link (yellow)	Pin 3 – MUX
		DMX (-) Secondary Link	Green	Pin 4 – DMX (-) Secondary Link (blue)	No connection (cap the wire)
		DMX (+) Secondary Link	Red	Pin 5 – DMX (+) Secondary Link (black)	No connection (cap the wire)

[illegible]