Page

QSE-CI-NWK-E Control Interface

The QSE-CI-NWK-E is a versatile integration access point for Lutron QS-based systems. Through either RS232 or TCP/IP over Ethernet, third-party devices can control and/or monitor a QS system.

Features

- Easily integrate with touchscreens, PCs, A/V systems, or other digital systems and devices.
- Control and monitor GRAFIK Eye QS, Sivoia QS, Energi Savr Node, and other products on the wired QS link.
- Monitor lighting scenes, levels, shade positions and more. For a full list of commands see Integration Protocol document (P/N 040249) at www.lutron.com
- Up to 10 QSE-CI-NWK-E control interfaces are allowed per QS link.
- The QSE-CI-NWK-E is Quantum compatible. Refer to the Quantum System Specification Sheet (P/N 369634) at www.lutron.com for compatibility details.



Job Name:	Model Numbers:	
Job Number:		

QSE-CI-NWK-E

Control Interface

369373f 2 07.08.20

Specifications

Regulatory Approvals

- RoHS Compliant
- CE Marked
- NOM
- cULus

Power

- SELV/PELV/NEC® Class 2
- Operating voltage: 24–36 V== 65 mA

QS Link Limits

- The QS wired communications link is limited to 100 devices and 100 zones. Each QSE-CI-NWK-E control interface counts as 1 device and 0 zones.
- Each QSE-CI-NWK-E control interface consumes 2 Power Draw Units (PDU) on the QS link. Refer to the QS Link Power Draw Units Specification Submittal (P/N 369405) at www.lutron.com for more information.
- The maximum wiring length for the QS link is 2000 ft (610 m).

Environment

- 32 °F to 104 °F (0 °C to 40 °C).
- Relative humidity less than 90% non-condensing.
- Indoor use only.
- Unit generates heat, maximum 8 BTU/hr.

Integration Features

- Monitoring: Current scene, zone level, button presses, shade group levels.
- Control: Scene selection, scene lockout, zone lockout, sequencing, zone raise/lower, master raise/lower, set shade group level, simulate button press/release.

For the full list of features and commands, please refer to the Integration Protocol document (P/N 040249) at www.lutron.com

Compatible Components

• Compatible with most QS devices. For a complete list of compatible components see Integration Protocol document (P/N 040249) at www.lutron.com

Requirements

- QS Link Power Supply, such as a:
 - GRAFIK Eye QS.
- QS Link power supply, such as the QSPS-P1-1-50 . – Energi Savr Node QS.
- QS Communication Link SELV/PELV/NEC® Class 2 (see QS Link Wire Sizes table).

Protocol

 Integration Protocol document (P/N 040249) at www.lutron.com

RS232 Connection

- Standard 9-pin female serial connector on interface.
- 50 ft (15 m) maximum serial cable length.
- Dip switches are set at factory, all Off.
- Dip switches are used to set RS232 baud rate:

DIP Switch Settings for RS232 Baud Rate



Ethernet Connection

- Standard CAT5 (or better) cable, 328 ft (100 m) maximum, connects the QSE-CI-NWK-E interface to a PC or other Ethernet source.
- Supports MDI/MDIX auto-crossover (no crossover cable needed).
- Auto-negotiation of 10 or 100 Mbps speed and full- or half-duplex operation.
- Default IP address is 192.168.250.1. Can be changed using the Lutron DeviceIP tool.

Note: Either the RS232 or the Ethernet can be used, but not both.

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		Fage
Job Name:	Model Numbers:	
Job Number:		

369373f 3 07.08.20

Dimensions

Dimensions are in inches (mm) 2.5 Mounting holes (63) Terminal blocks LEDs and addressing on this side switches on this side 4.25 Mounting Hole Detail 3.75 (108)(95) 0.1875 (5) dia. 0.3125 •(9) dia. 0 0.1875 (5) 5.25 dia. (134)0.25 (6) 1.0 #6 or #8 (M3 or M4) (27)screw recommended

Mounting Options

Mount where terminal blocks, switches, and LEDs are accessible. Strip 3/8 in (10 mm) of insulation from wires. Each data link terminal will accept up to two 18 AWG (1.0 mm²) wires. Connect wiring as shown on the Wiring page. LED 1 lights continuously (Power) and LED 7 blinks rapidly (Data Link RX) when the SELV/PELV/NEC® Class 2 Data Link is installed correctly. Choose from the following mounting methods:

1 Direct Wall Mounting

Mount the control interface directly on a wall, as shown in Mounting Methods at right, using screws (not included). When mounting, provide sufficient space for connecting cables.

2 Rack Mounting

Place the unit in the LUT-19AV-1U AV rack using screws provided with the unit. The LUT-19AV-1U will hold up to four units.

3 Enclosed Wall Mounting

If conduit is desired for wiring, use the LUT-5x10-ENC to mount one unit.

Mounting Methods







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LUT-5x10-ENC

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		T age
Job Name:	Model Numbers:	
Job Number:		

Terminal Locations



Devices

Equipment)

LED and DIP Switch Locations



LUTRON SPECIFICATION SUBMITTAL		Page
Job Name:	Model Numbers:	
Job Number:		

QSE-CI-NWK-E

Control Interface

369373f 5 07.08.20

Wiring

RS232 Link

- Standard 9-pin serial connector plugs into RS232 equipment, and to QSE-CI-NWK-E.
- Must be 50 ft (15 m) or less.

RS232 Signals

Signals	Pin on 9-Pin Cable
Com	5
TxD	3
RxD	2

Ethernet Link Wiring

- Standard CAT5 cable connects QSE-CI-NWK-E Interface to PC, router, or other Ethernet source.
- No crossover cable needed.
- Must be 328 ft (100 m) or less.
- Ethernet network and cable provided by others.



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SPECIFICATION SUBMITTAL

LUTRON SPECIFICATION SUBMITTAL		Page
Job Name:	Model Numbers:	
Job Number:		

QS System

QSE-CI-NWK-E

Control Interface

Page

369373f 6 07.08.20

Wiring (continued): QS Link Wiring Methods (choose one)

- System communication uses SELV/PELV/NEC® Class 2 wiring. Follow all local and national electrical codes for installation.
- Each terminal accepts up to two 18 AWG (1.0 mm²) wires or one 12 AWG (4.0 mm²) wire.
- Total length of control link must not exceed 2000 ft (610 m).
- Do not allow SELV/PELV/NEC® Class 2 wires to contact live/mains wire.
- Typical Wire Sizes: See QS Link Wire Sizes table.
- Connect the terminal 1, 3, and 4 connections to all control units, wallstations, and control interfaces in the QS system. For terminal 2 connectivity, see below.



QS Link Wire Sizes (check compatibility in your area)

QS Link Wiring Length	Wire Gauge	Lutron Cable Part Number
< 500 ft (153 m)	Power (terminals 1 and 2) 1 pair 18 AWG (1.0 mm ²) Data (terminals 3 and 4) 1 twisted, shielded pair 22 AWG (0.5 mm ²)	GRX-CBL-346S (non-plenum) GRX-PCBL-346S (plenum)
500 ft–2000 ft (153 m–610 m)	Power (terminals 1 and 2) 1 pair 12 AWG (4.0 mm ²) Data (terminals 3 and 4) 1 twisted, shielded pair 22 AWG (0.5 mm ²)	GRX-CBL-46L (non-plenum) GRX-PCBL-46L (plenum)

SPECIFICATION SUBMITTAL

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Job Name:	Model Numbers:	
Job Number:		