

HomeWorks QS Processor

The *HomeWorks* QS processor provides control and communication to *HomeWorks* QS system components.

The Ethernet links allow communication to the *HomeWorks* QS software, integration with third party systems and communication between multiple processors. *HomeWorks* QS processors may be connected using either standard networking or using ad-hoc networking. All processors on a project must be connected to a single network. The *HomeWorks* QS software and all integration equipment must be connected to the same network as the processors.

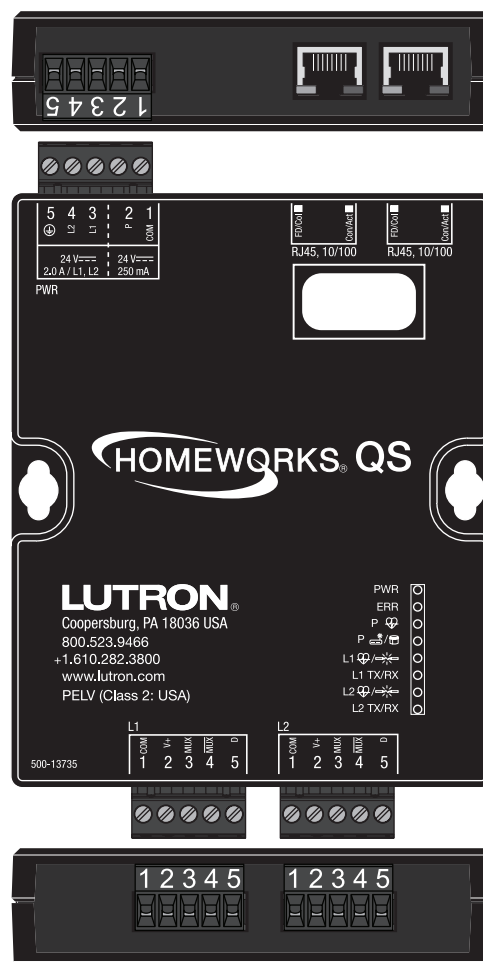
The processor is powered from the QSPS-DH-1-60 power supply. Refer to the *HomeWorks* QS software to determine link power requirements.

The *HomeWorks* QS processor can be installed in an HQ-LV21 enclosure.

Processor Capabilities

Each *HomeWorks* QS processor has 2 links that can be individually configured as one of three types:

- *HomeWorks* / *HomeWorks* QS Power Panels
16 addresses / 256 zones
- *HomeWorks* QS Wired Device Link
100 devices / 500 zones
 - *HomeWorks* QS Control Interfaces
 - *HomeWorks* QS Dynamic Keypad
 - *HomeWorks* QS seeTouch® Keypad
 - GRAFIK Eye® QS Control Unit
 - Sivoia® QS shades
- *HomeWorks* QS RF Link
100 devices / 100 zones
 - *HomeWorks* QS Dynamic Keypad
 - *HomeWorks* QS Maestro® Dimmers/Switches
 - *HomeWorks* QS Lamp Dimmers
 - *HomeWorks* QS RF seeTouch Keypad
 - Sensors, Occupancy/Vacancy
 - Sivoia QS Wireless Shades
 - *HomeWorks* QS Tabletop Keypad
 - GRAFIK Eye QS Control Units



Model Number

HQP6-2-120 *HomeWorks* QS Processor

HomeWorks QS Processor

Specifications

Model Numbers	HQP6-2-120
Power	Processor (P): 24 V $\overline{=}$ 250 mA Links (L1 / L2): 24 V $\overline{=}$ 2 A per link
Typical Power Consumption	5 W; 8 Power Draw Units (PDUs) Test conditions: Two Ethernet links connected, both device links in use
Regulatory Approvals	UL, cUL
Environment	Indoor use only. 32 °F and 104 °F (0 °C and 40 °C), 0% to 90% humidity, non-condensing
Heat Generated	17 BTU/hr — typical (24 BTU/hr with 2 links at 2 A each output)
Cooling Method	Passive Cooling
Power Failure Memory	System data stored in non-volatile memory. Timeclock retention for 10 years
Internal Timeclock	±1 minute per year
Miswire Protection	All terminal block inputs are over-voltage and miswire protected against wire reversals and shorts.
Low-Voltage Link Wire Type	Two pair — one pair 18 AWG (0.75 mm ²), one pair 18 to 22 AWG (0.34 to 0.75 mm ²) twisted shielded — IEC PELV / NEC® Class 2 cable
Low-Voltage Power Wire Type	18 AWG (0.75 mm ²)
Communications	Ethernet, RS485 (QS, RF, Power Panel)
Link Capacities	<div>HomeWorks / HomeWorks QS Power Panels 16 addresses / 256 zones</div> <div>HomeWorks QS Wired Device Link 100 devices / 500 zones</div> <div>HomeWorks QS RF Link 100 devices / 100 zones</div>
ESD Protection	Meets or exceeds the IEC 61000-4-2 standard
Surge Protection	Meets or exceeds ANSI/IEEE C62.41 standard
Mounting	Mounts in HQ-LV21 enclosure
Dimensions	With terminal blocks (as shown): 4.27 in (108 mm) x 6.0 in (152 mm) Without terminal blocks: 4.27 in (108 mm) x 5.26 in (134 mm)
Connections	Two 5-pin removable terminal blocks* for Links 1 and 2. One 5-pin removable terminal block* for Power Input. Two RJ-45 standard Ethernet connections. *Each terminal will accept up to two 18 AWG (0.75 mm ²) wires.
Warranty	8 Year Limited Warranty. http://www.lutron.com/resiinfo

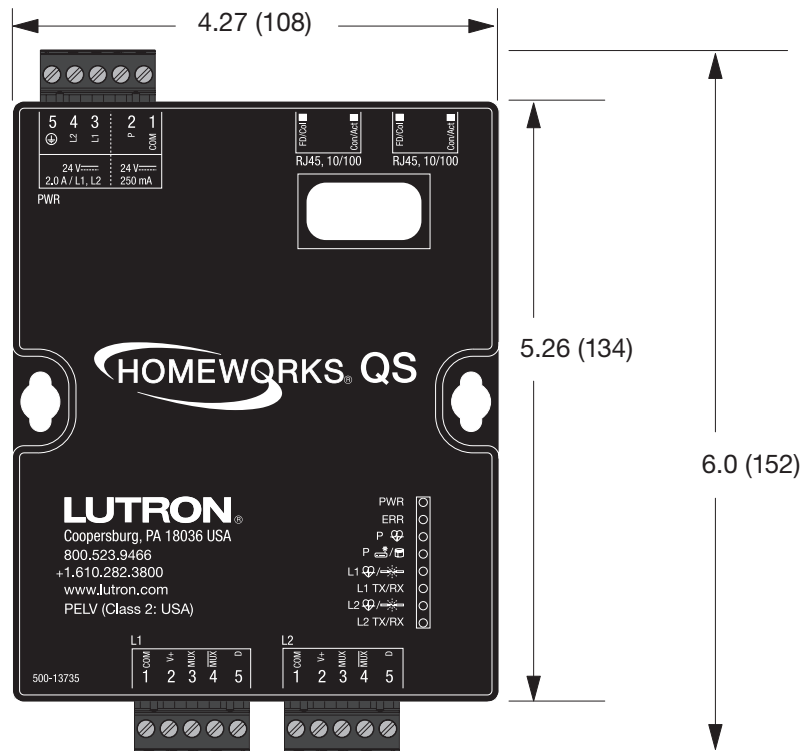
NEC is a registered trademark of the National Fire Protection Association, Quincy, Massachusetts.

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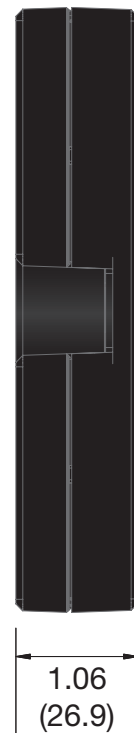
Dimensions

Dimensions shown as: in (mm)

Front View



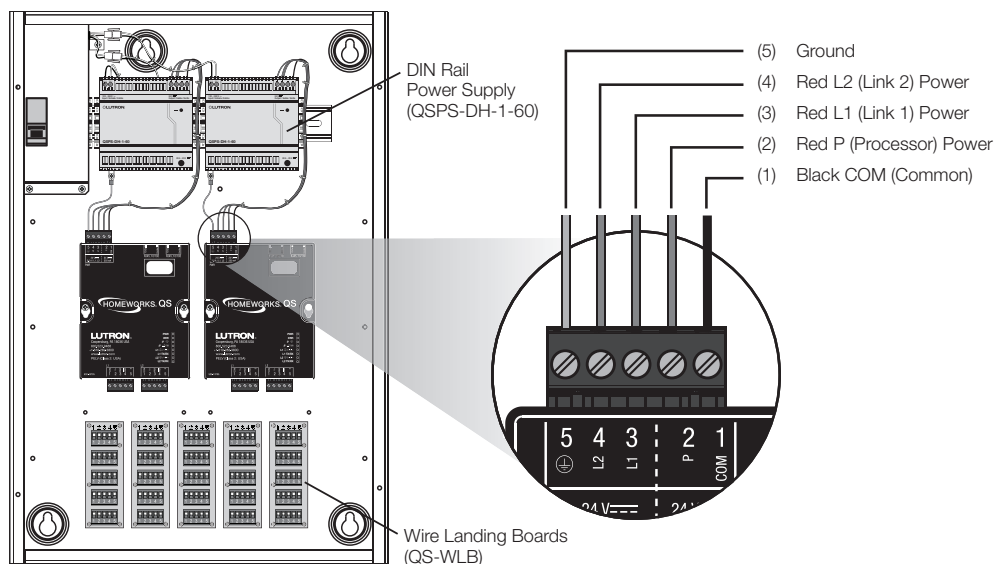
Side View



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Mounting

- Mounts in HQ-LV21 enclosure

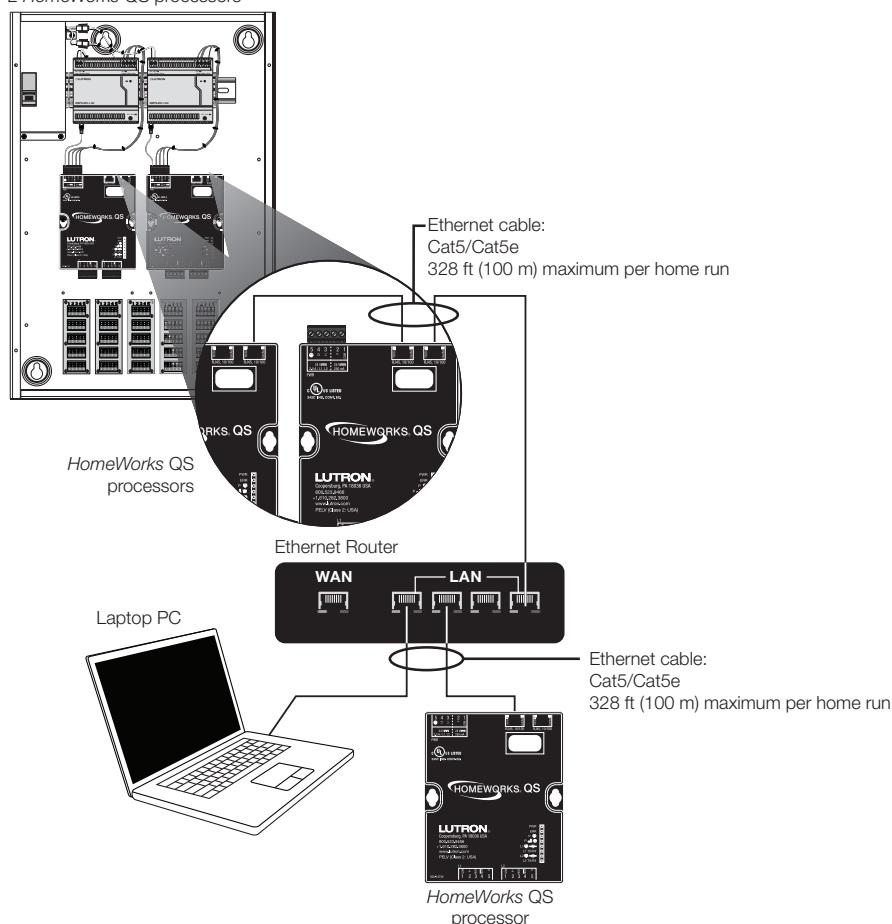


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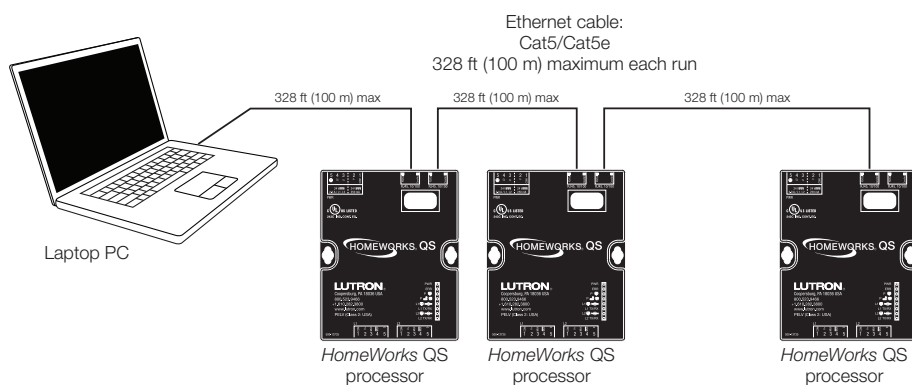
Wiring Diagrams – Networking

Standard Networking: Connection using an Ethernet hub/switch/router

HQ-LV21 Panel with
2 HomeWorks QS processors



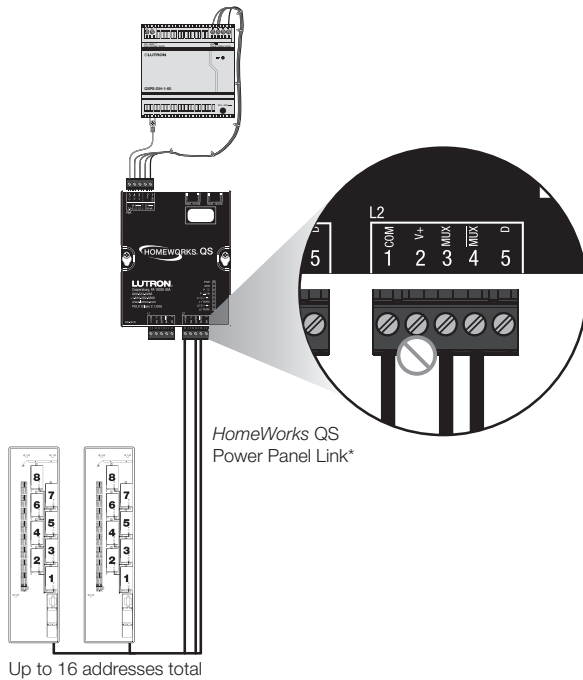
Ad-hoc Networking: Direct Ethernet connection from PC to processors



Up to 5 processors can be daisy-chained

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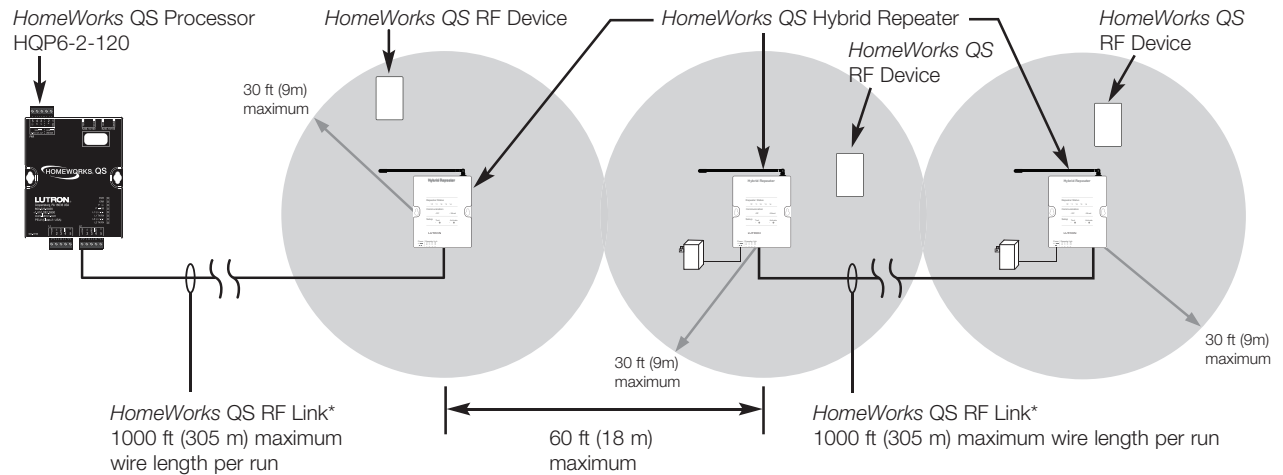
Wiring Diagrams — Power Panel Link



* Pin 2 does not get connected when using a power panel link.

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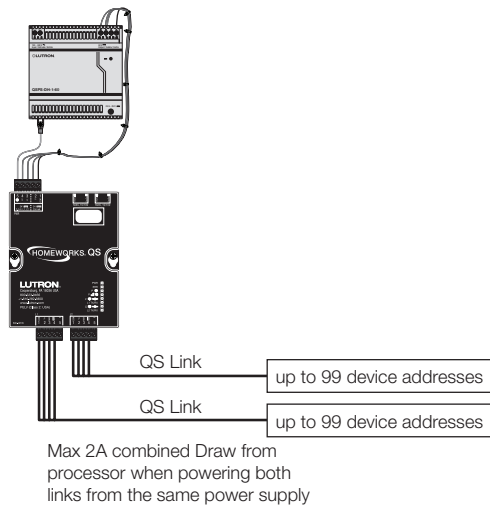
Wiring Diagrams — HomeWorks QS RF Link



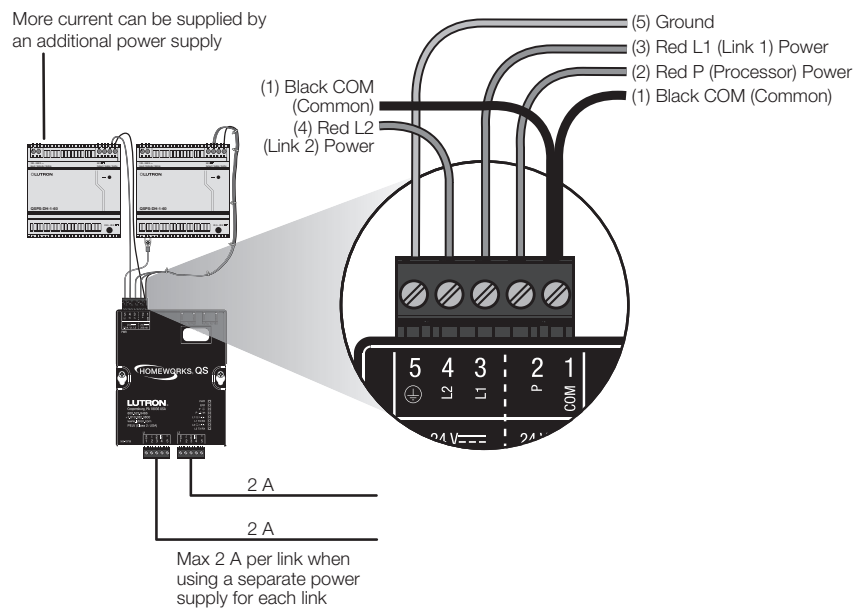
* HomeWorks QS Hybrid Repeaters can be powered from the Processor link or a wall-mount transformer. If powering from a wall-mount transformer, Pin 2 does not get connected.

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Wiring Diagrams — QS Link



Wiring Diagrams — Link Power



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Wiring Diagrams—QS Wired Device Link with Shades (Controllable Window Solutions)

