HomeWorks QS System Architecture for 120VAC and 434 MHz regions

HomeWorks QS System Capacities

- 16 processors (max)
- 32 configurable links (max)
- 32 QS wired links (max)
- 15 wireless links (max)
- 32 panel links (max)
- 10 Ketra N4 Hubs (max)
- 15,000 zones* (max)

*device — Any system component that requires a single address.

The processor reserves a single address on every link, four addresses are reserved for hybrid repeaters on the wireless link.

Zone — An output. An individual shade or dimmer/RPM/CCD/contact closure output. Example: A GRAFIPK Eye QS would be one device that could have up to six zones.

Key - Wiring

- Network link (Ethernet)
- QS wired link
- Wireless link
- Panel link

Key - Power

- Low voltage 120VAC
- Low voltage 24VDC
- Plug-in transformer
- Battery powered

HomeWorks QS Processor

- Processor link — 2 RJ-45 Ethernet ports with built-in switch for daisy chaining processors (1 RJ-45 Port with HQPB-1)
- Configurable links (RS-485) notify if there are two configurable links. HQPB-1 offers one configurable link
- QS wired link
- Wireless link
- Panel link
- Legacy links (Requires software link license)
- HAV Keypads
- G94/DEQ Shade Drives
- QSPS/WPM
- QH6 wireless dimmer link (not shown)
- No integrated interface cards
- No RS-232 port
- 24VDC powered
- Mounts in low-voltage enclosures and PNL-II

QS Wired Link

- 100 devices/ per link
- 512 zones/ per link
- 2,000 feet maximum wire length (consult technical specs for other applicable rules)
- Free-wire topology (star, daisy chain, home run, etc.)
- Standard Lutron 4 conductor cable*

Panel Link

- 100 devices/ per link (includes repeaters)
- 120 zones/ per link
- 4 repeaters per link
- 400 ft. RF distance — 600 ft from repeater to repeater. 30ft from device to repeater

Network Link

- Standard Ethernet wiring (328 feet max) used to connect processors to network
- 10/100 Mbps Ethernet

Ketra

- 10 N4 hubs per project (max)
- 49 devices per N4 hub
- 80 G2 Linear fixtures per N3
- 100 ft. total run of N3 including G2s (max)
- 120 scenes max with less than 256 Ketra groups
- 80 scenes max with 256 to 512 Ketra groups
- Note: RF Distance-30 ft. from fixture to N4

**The pin 3 - MUX, pin 4 - MUX

Pin-out: pin 1 - common, pin 2 - VDC, pin 3 - MUX, pin 4 - mux

***One pair 22 AWG twisted, shielded, Class 2 wires (max home run 500 ft. per local control, not to exceed 1000ft. total per bus).