International HomeWorks System Architecture 240 VAC and 434/868 MHz regions

HomeWorks System Capacities

- 16 processors (max)
- 32 configurable links (max)
  - 32 QS wired links (max)
  - 15 wireless links (max)[3]
- 10,000 zones[2] (max)

[1] 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.
[2] zone – An output. An individual shade or DPM/RPM/QSG/contact closure output.
Example: A GRAFIK Eye QS would be one device that could have up to six zones.
[3] Number of wireless links varies by country.

Key - Wiring

- Processor and network link (Ethernet)
- QS wired link*
- Wireless link*
- RS-232/RS-485
- Palladiom HVAC Controller (3 conductor)
- Shade wiring (4 conductor)**
- Shade wiring (2 conductor)**

*GRX-CBL346S-500
Two pair: one pair 1.0 mm²
one pair 0.5–1.0 mm² twisted shielded
Pin-out: pin 1 - common, pin 2 - VDC,
pin 3 - MUX, pin 4 - $\overline{\text{MUX}}$

**The wire gauge required for shades power conductors is dependent on shade size and number, wire run length, and power supply type being used. Consult technical specifications of shade equipment for details.

Key - Power

1. Line voltage
2. Low voltage 24 VDC
3. Low voltage 12 VDC
4. Plug-in transformer
5. Battery powered

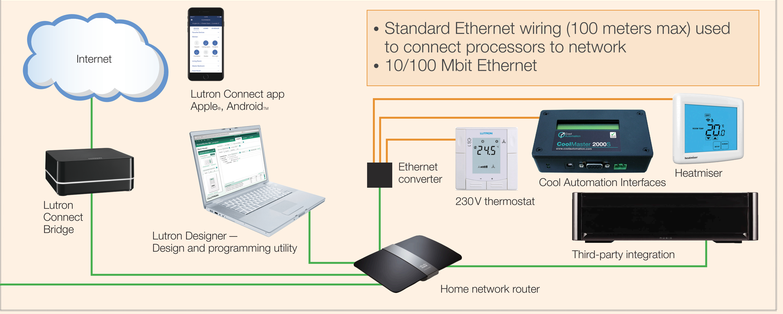
HomeWorks Processor

- Processor link – 2 RJ-45 Ethernet ports with built in switch for daisy chaining processors (1 RS-45 port with HQP6-1)
- Configurable links (RS-485)*
  - QS wired link
  - Wireless link
  - Panel link
- Legacy links (Requires software link license)
  - GRX/WPM
  - HWI Keypads
  - Q96/QED Shade Drives
- No RS-232 port
- 24 VDC powered
- Mounts in a low-voltage enclosure.

*HQP6-2 offers two configurable links; HQP6-1 offers one configurable link.

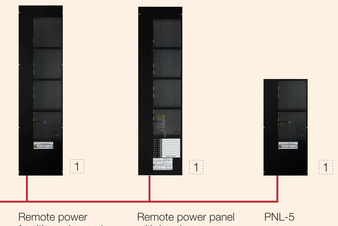
Network Link

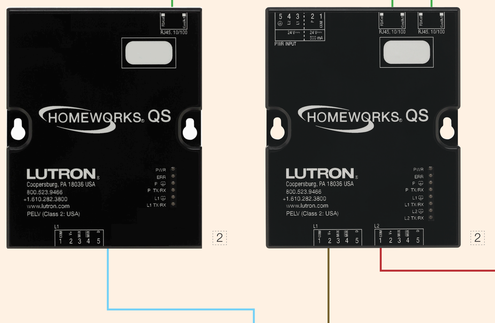
- Standard Ethernet wiring (100 meters max) used to connect processors to network
- 10/100 Mbit Ethernet



Panel Link

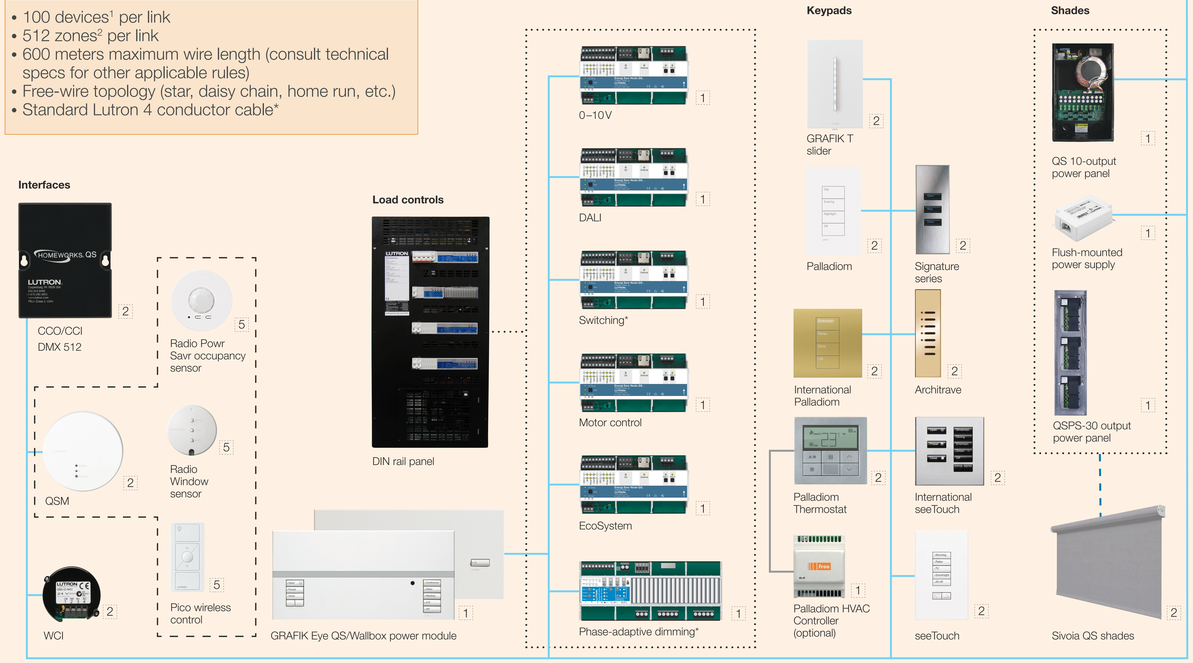
- 16 MIs/SPIs per link
- 256 zones[2] per link





QS Wired Link

- 100 devices[1] per link
- 512 zones[2] per link
- 600 meters maximum wire length (consult technical specs for other applicable rules)
- Free-wire topology (star, daisy chain, home run, etc.)
- Standard Lutron 4 conductor cable*



Note: Not all available products are shown.
Not all wireless products are available in every country.

* Available in low-power and high-power versions

Wireless Link

- 100 devices[1] per link (includes repeaters)
- 100 zones[2] per link
- 4 repeaters per link
- RF distance – 18 m from repeater to repeater, 9 m from device to repeater



Notes:
Wireless devices are not available in all countries.
Not all available products are shown.

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