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

## **HomeWorks System Capacities HomeWorks Processor Network Link** • Processor link – 2 RJ-45 Ethernet ports with built in switch 16 processors (max) for daisy chaining processors (1 RS-45 port with HQP6-1) 32 configurable links (max) Standard Ethernet wiring (100 meters max) used Configurable links (RS-485)\* - 32 QS wired links (max) to connect processors to network Internet - 15 wireless links (max)<sup>3</sup> - QS wired link • 10/100 Mbit Ethernet - Wireless link • 10,000 zones<sup>2</sup> (max) Lutron Connect app - Panel link Apple<sub>®</sub>, Android<sub>™</sub> <sup>1</sup> device – Any system component that requires a single address. The processor reserves a single address on every link. Legacy links (Requires software link license) Four addresses are reserved for hybrid repeaters on the wireless link. - GRX/WPM <sup>2</sup> zone – An output. An individual shade or DPM/RPM/QSG/contact closure output. - HWI Keypads Example: A GRAFIK Eye QS would be one device that could have up to six zones. - Q96/QED Shade Drives Cool Automation Interfaces <sup>3</sup> Number of wireless links varies by country. No RS-232 port 230V thermostat 24 VDC powered Mounts in a low-voltage enclosure. Lutron Designer — Design and programming utility \*HQP6-2 offers two configurable links; HQP6-1 offers one configurable link. **Key - Wiring** Third-party integration **Key - Power** Processor and network link (Ethernet) - - - - Shade wiring (4 conductor)\*\* 1 Line voltage - - - - Shade wiring (2 conductor)\*\* QS wired link\* 2 Low voltage 24 VDC ----- Wireless link\* 3 Low voltage 12 VDC Panel Link RS-232/RS-485 4 Plug-in transformer ———— Palladiom HVAC Controller (3 conductor) 5 Battery powered 16 MIs/SPIs per link • 256 zones² per link \*GRX-CBL346S-500 Two pair: one pair 1.0 mm<sup>2</sup> one pair 0.5-1.0 mm<sup>2</sup> twisted shielded Coopersburg, PA 18036 USA 800.523.9466 +1.610.282.3800 vww.lutron.com PELV (Class 2: USA) LUTRON © Coopersburg, PA 18036 USA 800.523.9466 +1.610.282.3800 www.lutron.com Pin-out: pin 1 - common, pin 2 - VDC, pin 3 - MUX, pin 4 - MUX \*\*The wire gauge required for shades power conductors is dependent on 1 2 3 4 5 shade size and number, wire run length, and power supply type being used. Consult technical specifications of shade equipment for details. Remote power panel Remote power with breakers feedthrough panel Wireless Link **QS Wired Link Shades** • 100 devices<sup>1</sup> per link (includes repeaters) • 100 devices<sup>1</sup> per link Hybrid Repeater • 512 zones² per link • 100 zones² per link Ethernot DAL1 DAL2 H. Temp Construction of the state of • 600 meters maximum wire length (consult technical 4 repeaters per link Communication • RF • Wired specs for other applicable rules) RF distance – 18 m from repeater to repeater, • Free-wire topology (star, daisy chain, home run, etc.) 9m from device to repeater 2 or 4 Standard Lutron 4 conductor cable\* GRAFIK T Hybrid repeater HI Tomp Test Cos Emenet DALI DALI2 HE Tomp Cos Expended ONE SDALID Test Windle Manual Cost ONE STATE slider QS 10-output power panel Interfaces Palladiom • GRAFIK Eye QS Wallbox power module CCO/CCI Radio Powr DMX 512 Sivoia QS I Savr occupancy Wireless shades sensor ------International Palladiom \*Dim-outs \*Dining \*Sheers \*Entertain QSPS-30 output ● (# **□** 2 **□** Test power panel DIN rail panel Pico wireless control Radio Powr Savr seeTouch tabletop wireless occupancy/ Window vacancy sensor Palladiom International Thermostat seeTouch Flush-mounted power supply •••••• •••••• · 0 Controller RF 0-10 V RF contact closure RF Softswitch Phase-adaptive dimming\* (optional) - - - - - GRAFIK Eye QS/Wallbox power module Sivoia QS shades seeTouch module output module dimmer module Sivoia QS Triathlon shades

Wireless devices are not available in all countries.

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\* Available in low-power and high-power versions