

## Q7770A RapidLink™ DIAL-UP NETWORK ADAPTER



### SPECIFICATION DATA



### BEFORE INSTALLATION

The RapidLink Dial-Up Network Adapter provides local access to LONWORKS® Bus (E-bus) from a PC through an industry standard EIA-232 interface (previously called RS-232) or dial-up remote access through an on-board 56K bps modem. All of the RapidLink connections are located on the rear panel of the device. The RapidLink Dial-up Network Adapter interfaces with the LCBS family of controllers (i.e. Excel 10, Excel 15 and Q7300 / T7300 series of controllers, any third party controllers supported by LCBS family of controllers). It can be used with LONSPEC™ 4.6.5, LONSTATION™ Multi-Site 4.6.0, and RapidZone 3.0.0 or new versions of this software packages.

The RapidLink Dial-up Network Adapter requires input power of 9 to 24 Vac or Vdc and at least 250 mA. RapidLink should be connected with UL Class 2 wiring only. The input power can be connected through the screw terminal connector supplied with RapidLink. The E-Bus network connector on the RapidLink is orange colored and located on the rear of the RapidLink enclosure. The mating connector is also a screw terminal type.

RapidLink has LEDs that indicate activity on the serial, modem, and E-Bus. RapidLink has an LED indicating that the device is powered and an LED indicating that the E-Bus Service switch, located on the front panel, is being pressed. RapidLink also provides a Reset switch on the front panel. The RapidLink enclosure has provisions for both wall mounting and tabletop operation.

### FEATURES

- High performance communications protocol provides for faster communication of data to your LONWORKS network.
- Serial EIA-232 interface connects host processors to LONWORKS networks.
- A fixed 115,200 baud rate is supported on serial the EIA-232 port to support direct local connections.
- On-board modem support with baud rate up to 56K bps to support remote dial-up connections.
- Uses LONWORKS network protocol.
- Integral FT-3150® smart transceiver.
- LONWORKS communicates through a 78-kilo-baud transformer-coupled transceiver.
- 9 to 24 Vac or Vdc Class 2 power input using a mating connector with removable screw terminals.
- Automatic dial-out using on-board modem for transferring alarm information to a central station (When used in conjunction with XL15A Building Manager).
- Easy migration for existing systems through one to one replacement of existing LON® transceiver and external modem with RapidLink and upgrading LONSPEC, LONSTATION and XL15A firmware to 4.6.5, 4.6.0 and 2.4.61 (or later versions) respectively.
- Easy wall mounting or tabletop operation.
- Fast installation - No switches to configure.
- Easy to read labels to guide installation of wiring.



## SPECIFICATIONS

The RapidLink Dial-up Network Adapter is a one-piece, externally wired communication device. RapidLink can be hardwired to the LONWORKS network. The on-board 56K bps modem provides for communication to the remote site as well as allowing an Excel15A Building Manager to dial out alarms to LONSTATION. The EIA-232 serial port provides for local access to the E-Bus.

**Model Number:** Q7770A1001

**Supported Application(s):**

LonSpec Version 4.6.5 and above.  
LonStation Multi-Site version 4.6.0 and above.  
RapidZone Version 3.0.0 and above.

**System Processor:** Ubicom™ IP2022 RISC Processor.

**Neuron® Transceiver:**

Echelon®, Neuron FT-3150 Smart Transceiver.

**Modem Connection:** On-board Modem supports remote connection with connection speeds of up to 56 Kbps.

**Modem Connector Type:** RJ-11.

**Network (E-Bus) Connector:** Weidmuller - 2-conductor BLA.

**Bus Polarity:** Polarity insensitive.

**E-Bus Service Interface:** Service Switch and LED.

**Serial Port** EIA-232 (Formerly RS-232).

**Serial Port Bit Rate:** 115200 bps.

**Serial Connector Type:** Female DB-9.

**Power Polarity:** Polarity insensitive.

**Input Operating Voltage:** 9 to 24 Vac or Vdc.

**Operating Input Current (Typical):** 120 mA.

**Power Supply:** 9 to 24 Vac or Vdc Class 2 power supply only using removable screw terminals.

**Temperature:**

Operating: +32°F to +100°F (0°C to +38°C).  
Storage: -40°F to +185°F (-40°C to +85°C).

**Humidity (non-condensing):**

Operating: 25 to 95% RH at 50°C.  
Storage: 95% maximum at 50°C.

**Dimensions:**

7-1/2 in. L x 5-7/16 in. W x 1-3/16 in. H.  
190 mm L x 138 mm W x 46 mm H.

**Approvals:** UL, cUL, FCC, CE.

NOTE: For further details, refer to the Product Data Sheet.

**Applicable Documents:**

Q7770A RapidLink Product Data Sheet (form 95-7700).

**Approved PC Side Modem:** US Robotics 56K external V.90.

**Modem Dip Switch Settings:** None.

**Available Accessories:**

5000591-001 RapidLink U.S. Accessory Kit. 12 Vac, 250 mA (120 Vac, 60 Hz Main Outlet) Class 2-power supply; telephone line cable; serial cable; E-Bus mating connector.

**IMPORTANT**

- *Using the RapidLink Dial-up Network Adapter for alarm dial-out on systems with W7760A Excel 15A Controllers requires upgrading W7760A firmware to version 2.4.61.*
- *Obtain firmware upgrades from Honeywell TAC.*

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