

## Infinity

### EnergyLink 2500 Ethernet Repeater

The EnergyLink 2500 is an Ethernet IEEE 802.3 compliant industry standard 10 Mbps Ethernet repeater. The EnergyLink provides a simple means to amplify and extend the Ethernet, to combine bus and star topologies, and to mix coaxial, twisted pair, and fiber optic cable on the same network.

The EnergyLink 2500 is modular in design, supporting 10Base-T, 10Base-2, and 10Base-FL, using EnergyLink modules 2501, 2502 and 2503, respectively. The EnergyLink 2500 can support up to seven modules in various combinations. See the *EnergyLink 2500 Installation Guide* for more information.

The EnergyLink 2500 simplifies network diagnostics by using LED indicators. LEDs at each EnergyLink port identify network traffic and assist in isolating network problems while other LEDs monitor proper EnergyLink operation. An additional LED identifies when network reconfiguration occurs.

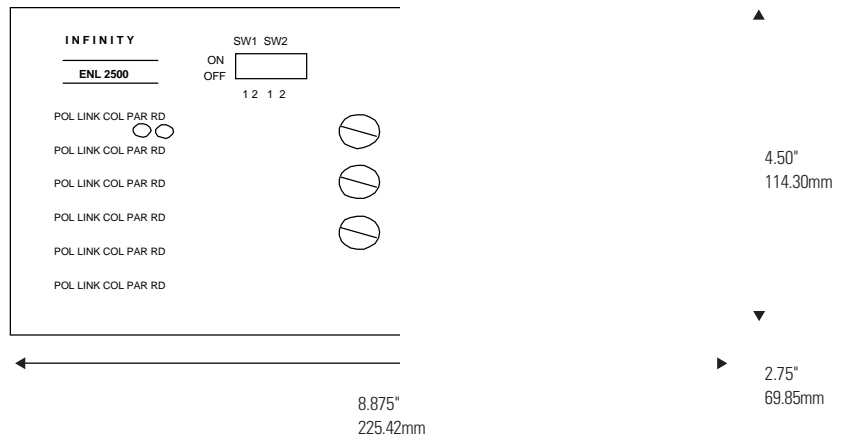
The Energy Link 2500 was designed to fit in the CX 9200 cabinet and is powered from the CX's internal UPS. This assures reliable network communication, even during a power failure. See the *EnergyLink 2500 Installation Guide* for more information.



#### FEATURES

- **Controller-Mounted Ethernet Repeater**
- **Mixes Coax and Fiber Optic in One Hub for Optimum Cabling Flexibility**
- **Supports Up to Seven Plug-in Modules for Easy Field Expansion**
- **LED Indicators Diagnose Network Problems and Identify When Network Reconfiguration Occurs**

Infinity EnergyLink 2500 Ethernet Repeater



EnergyLink 2500 Dimensional Diagram

## SPECIFICATIONS

### ELECTRICAL

<b>Power:</b>	+5 VDC $\pm$ 5% @ 3.0 amps max.
<b>Power Consumption:</b>	15 W max.
<b>Overload Protection:</b>	5 amp pico fuse provided by CX 9200 UPS.

### MECHANICAL

<b>Operating Environment:</b>	32° to 120°F, (0° to 50°C), 10 to 95% RH (Non-condensing)
<b>Size:</b>	8.34"H x 4.31"W x 1.84"D (211.8 L X 109.5 W x 46.7D)mm
<b>Weight:</b>	1 lb. (2.2 Kg)
<b>Enclosure:</b>	Mounts inside CX 9200

### COMMUNICATIONS

<b>Communication Interface:</b>	Ethernet IEEE 802.3 10 Mbps
<b>Ethernet Media Types:</b>	Fiber, Coax, Twisted Pair (See modules specifications below.)

### CONNECTIONS

<b>Power:</b>	3 position barrier strip (Some configurations require an external power supply.)
<b>Communications:</b>	(See module specifications below.)

### MODULE SPECIFICATIONS

#### EnergyLink 2501 Module (10Base-T Transceiver)

<b>Media Type:</b>	Twisted Pair
<b>Connectors:</b>	RJ-45
<b>Cable Length:</b>	100m (328 ft.) maximum
<b>Nodes per Segment:</b>	2
<b>Cable Type:</b>	Unshielded Twisted Pair
<b>Impedance:</b>	96 ohms
<b>Propagation Delay:</b>	1.1 microseconds
<b>LED Indicators:</b>	Receive, Partition, Collision, Polarity, Link
<b>Dimensions:</b>	4.50"H x 8.87"W x 2.75"D (114.30H x 225.42W x 69.85D)mm

## SPECIFICATIONS (Cont'd)

### EnergyLink 2502 Module (10Base-2 Transceiver)

<b>Media Type:</b>	Coax
<b>Connectors:</b>	BNC Style
<b>Cable Length:</b>	185m maximum (606 ft), .5m min.
<b>Nodes per Segment:</b>	30
<b>Cable Type:</b>	RG-58 A/U
<b>Impedance:</b>	50 ohms
<b>Propagation Delay:</b>	1.160 microseconds
<b>LED Indicators:</b>	Receive, Partition, Collision
<b>Dimensions:</b>	2.06"H x 3.5"W x .63"D (52.3H x 88.9W x 16.0D)mm

### EnergyLink 2503 Module (Complies with IEEE 802.3 FOIRL Specifications)

<b>Media Type:</b>	Fiber
<b>Connectors:</b>	Multi-Mode, Fiber Optic Transceiver Interface (St Style)
<b>Cable Length:</b>	2km (6560 ft.) maximum
<b>Fiber Budget:</b>	Not to exceed 12.5 dB signal loss
<b>Propagation Delay:</b>	1.1 microseconds
<b>Fiber Types:</b>	50/125/125/125/140
<b>LED Indicators:</b>	Receive, Partition, Collision, Link
<b>Dimensions:</b>	4.50"H x 8.87"W x 2.75"D (114.30H x 225.42W x 69.85D)mm

AGENCY LISTINGS      UL/CUL 916, 864-UUKL, 1076, FCC

### OPTIONS

- UL-864, UUKL Compliance

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Consult *Andover Product Installation  
Guides* for exact installation  
instructions and specifications.

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