



# EnviroNET™ Model EHA2172

## Ruggedized 50-Mbps Ethernet Extender

Patton's EHA2172 breaks distance and speed barriers with up to 50 Mbps full-duplex and distances of up to 5,500 feet (1,700m) over already existing infrastructure cabling.

### 50 Mbps, Full-Duplex Operation Over Twisted-Pair

Reduces the cost and hassles of new installations. Utilizes installed voice-grade twisted pairs to eliminate the expense of fiber or Cat5e cabling.

### NEMA 3 Compliant, Ruggedized Steel Enclosure

Protection against elements such as dirt, rain, sleet, snow, dust, and that will be undamaged by the external formation of ice on the enclosure.

### Plug and Play

No configuration or cable hassles during installation with auto-sensing 10/100, full or half duplex, and auto MDI-X.

### Extended Temperature 0 to 50°C

Operates in environments that do not have heating or cooling options.

### Flexible installation

Wall or DIN rail mountable.

The Model EHA2172 simplifies network extension by utilizing twisted-pair infrastructure previously used for legacy systems such as serial circuit TTL, RS-232 and RS-422/485, phone lines, or even alarm circuits to be used for extending or connecting Ethernet devices together. With a pair of EHA2172s (or combined with a Patton 2172 or 2172R), a user can extend network connections up to 5,500 feet. Reusing already existing infrastructure for Ethernet

Networking eliminates purchasing expensive fiber and Cat5E or greater cabling. Most important, it completely eliminates the hassle, expense, and downtime of cable installations. The EHA2172 operates in rugged environments and is NEMA3 certified. The EHA2172's steel case can be conveniently mounted on a wall or pole.

Visit [www.patton.com](http://www.patton.com) for more information.



NEMA 4 self-sealing brass cable glands for network connections and power feeds



### EnviroNET™ EH Series Environmentally Hardened

Built to NEMA 4 specs, the durable EH Series protects against rain, sleet, snow, dirt, dust, ice build-up, high humidity (moisture) and physical tampering. Able to operate in temperatures ranging from 32 to 122°F (0 to 50°C), it is ideal for use in environments with controlled temperatures.



Shroud for RJ-45 provides protection against damage through misuse and positive alignment for mating of connectors

Coupling ring, screw thread provides secure cable coupling

Sealing gland and cage optimized to maintain IP68 seal and provide secure cable restraint without disrupting signal



Mating connectors install kit included

'O' ring maintains IP68 seal at connector interface

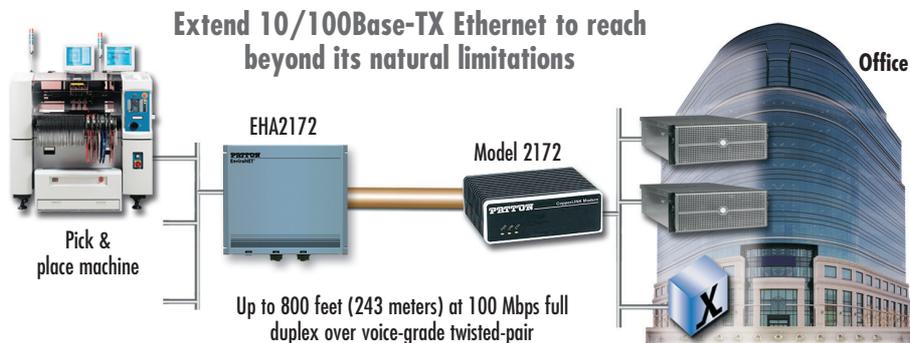
Panel gasket maintains IP68 seal to panel

Shielded CAT5e coupler maintains screening

## Typical Application

The Model EHA2172 auto-rate Ethernet Extenders are ideal for delivering network connections to remote offices and Ethernet enabled devices that are beyond the 328-foot (100-meter) distance limit of Ethernet. The 50 Mbps throughput eliminates bandwidth concerns previously experienced with other

copper wired transmission technologies. By utilizing existing voice grade copper pairs the expense and hassle of installing low capacitance or fiber cable is no longer required.



## Specifications\*

### CopperLink line interface

RJ-45 (pin 4 = ring; pin 5 = tip)

### Ethernet interface

8-position shielded RJ-45. Auto-sensing 10/100Base-T with half or full-duplex operation. DIP switch capable of disabling 100-Mbps full-duplex for equipment that does not support 802.3X (Pause Packets)

### Protocol

Transparent to high layer protocol. Supports 802.1Q VLAN tagging

### Modulation

Quadrature Amplitude Modulation (QAM) 4-band

### Duplexing Method

Frequency Division Duplexing (FDD)

### Frequency Range

CopperLink: 0–12 MHz

### Transmission

CopperLink line rate: Up to 50 Mbps

### Surge Suppression

CopperLink line maximum current surge: 20kA (8/20 $\mu$ s)

### Front Panel Indicators

Power, Link, Ethernet

### Power Supply

AC and DC options: Universal Input (UI)—100–240 VAC, or optional -48 VDC, -24 VDC, or -12 VDC

### Operating Temperature

32–122°F ( 0–50°C); NEMA3 Certified

### Dimensions

1.5Hx4.13Wx3.75D in.  
(3.81Hx10.5Wx9.53D cm)

### Weight

0.4 lbs (0.18 kg) without power supply

\* Specifications subject to change without notice.



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07MEHA2157-DS1

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