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 50ºC
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 for more information.

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

EnviroNET™ EH Series
Environmentally Hardened

MAXIMUM +50°C 0°C MINIMUM

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

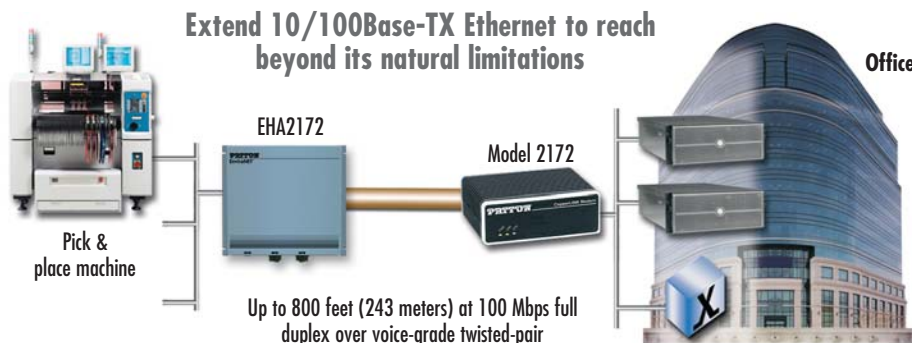'O' ring maintains IP68 seal at connector interface

Panel gasket maintains IP68 seal to panel

Shielded CAT5e coupler maintains screening

PATTON®

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.

Extend 10/100Base-TX Ethernet to reach beyond its natural limitations

Office

EHA2172

Model 2172

Pick & place machine

Up to 800 feet (243 meters) at 100 Mbps full duplex over voice-grade twisted-pair

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 (8/20µs)

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.