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New Ultra-High-Speed Ethernet Extender Breaks Another Barrier

CopperLink™... Going the distance

GAITHERSBURG, MD: Patton—the leader in business and carrier-class VoIP, network access, connectivity, and video surveillance equipment—is now taking orders for the new, US-manufactured CopperLink™ 2174 series of ultra-high-speed Ethernet Extenders, with initial shipments expected during October.

Patton sports a long history of barrier-busting innovations in Ethernet Extension technology. Now, by designing and manufacturing a device that achieves downstream line rates up to 168 Mbps, the company breaks its own record once again.

By extending Ethernet up to 10,000 feet (3 kilometers) while operating over copper twisted-pair, coaxial or Cat 5 cabling, the CopperLink™ 2174 eliminates the expense and hassle of replacing installed cable infrastructure when inter-connecting IP-enabled devices.

For example, using the 2174, network engineers can leverage existing cabling infrastructure to:

- Convert legacy CCTV circuits (coaxial) to IP
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- Replace serial RS-232/422/485 circuits (twisted-pair) with Ethernet connections
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- Improve the Ethernet speed/distance performance of Cat 5/6/7 segments

Providing four Ethernet ports with a built-in switch, the 2174 can aggregate and transmit IP traffic from four sources (light/motion sensors, video cameras, entry-card readers, personal computers, etc.) over a single Ethernet connection.

“It’s another industry first for Patton,” said Johnnie Grant, product manager for Patton’s CopperLink™ line. “Our latest innovation takes Ethernet farther and faster than ever before. The variety of hardware interfaces combined with extreme combinations of speed and distance make our 2174 the most versatile Ethernet extender in the world.”

Patton customers can specify BNC , RJ-45 or terminal block connectors when ordering two-

packs of the CopperLink™ 2174. Four user-selectable configuration profiles—combined with Patton's auto-rate adaptation feature—ensure maximum achievable symmetrical or asymmetrical rates for the installed noise environment, wire gauge/type and length. View 2174 speed/distance tables.

Symmetrical line-rate settings are ideal for such applications as remote LAN extension, video teleconferencing, and data backhaul, while asymmetrical configurations are well-suited for scenarios requiring ultra-high downstream speeds and/or extra-long distances: e.g. medical imaging, livestock monitoring, underwater video, internet gaming, and transporting high-resolution IP video from security cameras.

In related news, Patton expanded the SmartNode™ T1/E1/PRI VoIP Gateway Series earlier this year, and recently launched two new SmartNode™BRI VoIP product lines.

About CopperLink™ Ethernet Extenders

Patton has built Ethernet extenders in the USA ever since bringing the first Ethernet extender to market in the 1990s. Branded LAN-Xtend™, the Model 2111 achieved 2.3 Mbps over single twisted-pair. In 2002, Patton released the award-winning CopperLink™ 2158 that achieved speeds over 10 Mbps and reached up to 4656 feet (1372 meters). Announcing the CopperLink™ 2172 in 2006, Patton achieved full-duplex speeds up to 50 Mbps and distances reaching up to 6000 feet (1,820 meters). Now, Patton introduces the industry's most versatile Ethernet Extender, the CopperLink™ 2174, capable of delivering 168+ Mbps broadband Ethernet services and reaching distances up to 1.8 miles (3 km) away. Today CopperLink™ Ethernet Extenders are installed and operating in a vast diversity of environments, including nuclear power plants, submarines, sports arenas, election systems, and a rock 'n' roll celebrity museum.

CopperLink™ Hardened Industrial Solutions

Most CopperLink™ models are available in Patton's EnviroNET™ NEMA4-compliant, environmentally hardened enclosures. Suitable for installation in offshore oil rigs, pit mines, railway beds, and other harsh environments, EnviroNET™ enclosures protect network equipment against high wind, precipitation, salt spray, sand, oil, corrosive chemicals, and ice. EnviroNET™ solutions deliver communications services (Ethernet-over-copper, commercial/outdoor VoIP, T1/E1 extension, and others) in temperatures ranging from -40 to +185°F (-40 to +85°C).

About Patton

Patton is a multi-national organization that designs, develops, and manufactures electronic communications equipment for network access, connectivity, voice-over-IP, triple play and video surveillance. Deployed throughout the world in carrier, enterprise, and industrial networks, most Patton products are manufactured in the USA. Patton is ISO 9001:2008 certified and markets a catalog of over 1000 products including SmartNode™ VoIP solutions (SIP and H.323) for analog and ISDN telephony; Visuality™ mobile-video surveillance, collection, and intelligence distribution solution, ForeFront™ multi-service access infrastructure solutions for TDM and IP service delivery (T1/E1, G.SHDSL, xDSL, dial-up); OnSite™ CPE solutions for last-mile/local-loop access (WAN routers, modems, remote access servers, NTUs, CSU/DSUs); CopperLink™ Ethernet Extenders; EtherBITS device servers; EnviroNET™

NEMA4-compliant hardened networking equipment, and a full range of network-connectivity SerialComm (interface converters, short-range modems, multiplexers, surge protectors). Incorporated in January 1984, Patton Electronics has been doing business for over 26 years.

For more information or a free catalog, contact sales@patton.com.

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