

**Model 2174**



**Overview**

**Features**

**Ethernet Extension**—Extend 10/100Base-TX Ethernet up to 10,000 feet (3 kilometres)—well beyond the 328-foot (100-meter) limitation—over a single voice grade twisted-pair, or even coaxial cable.

- **Re-use your existing copper cables** save the expense and hassle of installing new cables or line-of-site wireless circuits.
- **Plug and Play**—Set these units up straight out of the box. No configuration is required. Auto-sensing 10/100 Ethernet ports support full or half duplex operation.
- **Multiple Line Rates Supported**—Boasting downstream line rates up to 168 Mbps, the switch-selectable rate mode options optimize rate and reach for the noise environment, wire gauge/type and length.
- **Transparent LAN Bridging**—Bypass network configuration requirements by transparently passing all higher layer protocols—including 802.1Q VLAN frames (tagged and untagged). Data-transmission mechanism is fully transparent to such IP video compression schemes as MPEG-4, H.264 and MJPEG.

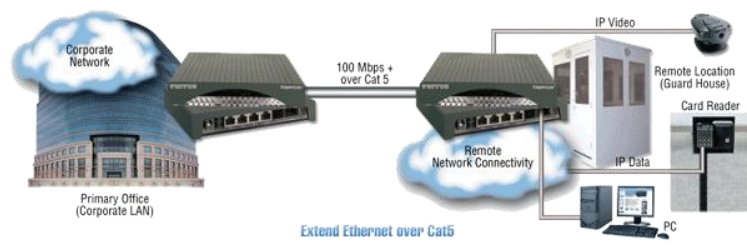
Perfect for bandwidth-intensive applications the Model 2174 delivers off-the-chart symmetrical line rates greater than 100 Mbps. Best of all—like all CopperLink™ products—the Model 2174 leverages existing copper infrastructure to deliver high speed Ethernet connectivity over voice-grade twisted pair, Cat 5e/6/7, and—new to the CopperLink™ line—coaxial cabling.

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.

Symmetrical line-rate settings are ideal for such applications as remote LAN extension, video teleconferencing, and data backhaul. Asymmetrical configurations are well-suited for applications requiring higher downstream speeds and/or longer distances between Ethernet devices. Typical symmetrical scenarios include medical imaging, livestock monitoring, underwater video, internet gaming, and transporting high-resolution IP video from security cameras.

**Applications**

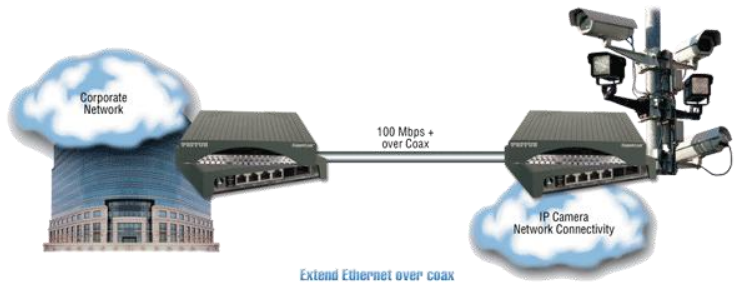
**Gate House**



**Workgroup Ethernet Extension**

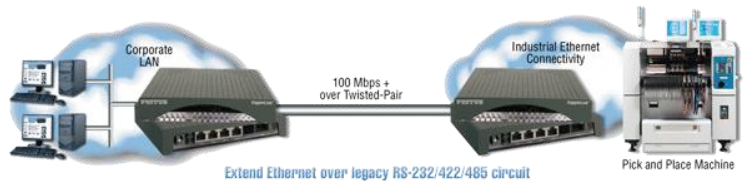
A built-in 4-port Ethernet switch makes the CopperLink Model 2174 ideal for delivering multiple IP information streams over a single cable. For example, at a guardhouse or security kiosk, you could aggregate IP data from a laptop, a motion sensor, and two high resolution IP video cameras for simultaneous transmission over a single Ethernet connection.

**IP Security Cameras**



Combining data flows from up to four network-enabled devices onto a single twisted pair or coax cable, the Model 2174 can deliver IP traffic up to 4,250 ft (1295 m) away—well beyond the standard 328-foot (100-meter) Ethernet distance limitation.

**Re-use Existing Cables**



With achievable line rates up to 100 Mbps, the CopperLink 2174 eliminates the bandwidth constraints commonly experienced with other copper-based transmission technologies. The Model 2174 is engineered to re-use existing infrastructure previously employed in legacy applications including alarm circuits, E1/T1 circuits, RS-232, RS-422, RS-485, CCTV and CATV. Many newer cabling standards are also supported, including Cat 5e, Cat 6 and Cat 7.

**CopperLink™**

For more information about **CopperLink™** products or to discuss a specific application please contact Saratota Ltd