Network Access Bridge Links LANs up to 3 Miles (4.9 km) Apart over a Single Twisted Pair

Patton LanXtend Bridge Combines Ethernet Bridging Function with mDSL Technology to Support up to 100 Networked Users

GAITHERSBURG, Maryland, USA, April 28, 1999—Patton Electronics Company has announced a Network Access Bridge that combines the capabilities of a 2.3 Mbps mDSL modem and an Ethernet bridge. The Patton Model 2112 _LanXtend™_ Bridge connects two peered 10Base-T Ethernet LANs (up to 100 users) at distances up to 3 miles/4.9 km over a single twisted pair (2 wires). Using the _LanXtend_, corporations can connect an Ethernet LAN at the corporate headquarters to a peered Ethernet LAN at a local branch office using a dry copper leased line. The _LanXtend_ also allows Universities, corporations, government agencies and military bases to use the installed base of telephone wire to connect two peered Ethernet LANs across a large campus or between floors in a high-rise building.

"With the _LanXtend_, there is no need to run expensive fiber or install repeaters to cover large distances between two peered LANs," said Norman Ireland, V.P. of Marketing for Patton. "Especially in large buildings or campuses, where offices are already connected by twisted pair telephone wires, the _LanXtend_ provides an extremely cost-effective way to create an 'always on' connection between two remote physical locations."

The standalone _LanXtend_ is also compatible with the Patton Model 1095RC mDSL rack card and Ethernet bridge rear card. This combination allows up to 13 or 14 extended LANs to be supported from a single 2U rack chassis, using a "hub and spokes" configuration. The Model 1095RC is HTTP/SNMP manageable through the rack chassis using Patton's Model 1001MC SNMP proxy agent card. Remote _LanXtend_ units are also HTTP/SNMP manageable using this system.

Product Overview
The Model 2112 _LanXtend_ supports synchronous, full duplex communication over one unconditioned twisted pair. Clocking is user selectable for internal, external or receive recovered (network) clock. Diagnostics include V.54 loops (LLB, RDL) and a V.52 compliant BER test pattern generator/detector (511/511E). Front panel LEDs include TD, RD, Link Status, Error and Test Mode. A front panel control port on the _LanXtend_ allows local configuration and control using a VT100 ASCII terminal. 2500VRMS transformer isolation guards against ground loops.

Providing MAC level connection between two peered Ethernet LANs, the *LanXtend* operates transparently to higher level protocols, such as TCP/IP, DECnet, NETBIOS and IPX. The *LanXtend* automatically discovers, loads and deletes MAC addresses, and incorporates 512K of on-board RAM. Two Modular RJ-45 jacks are provided, one for connection to the 10Base-T LAN, and one for connection to the 2-wire twisted pair circuit.

Price and Delivery
US list price for the Patton Model 2112 *LanXtend*™ Network Access Bridge is $1195 each. The Patton Model 1095RC mDSL rack card with Ethernet bridge interface is US list priced at $1725 each (rack, power supply and SNMP proxy card sold separately). Product is shipping now.

About Patton
Patton Electronics Company is a US manufacturer and marketer of data communications products, including: Remote Access Products (V.90, K56Flex, V.34+, and ISDN dial-in); Last Mile/Local Loop Access Products (T1, E1 and xDSL modems, NTUs and CSU/DSUs); Multi-Service Access Products (Voice, Intranet, Extranet and Frame Relay access); and Connectivity Products (interface converters, short range modems, multiplexers and data line surge protectors). Patton Electronics is an ISO 9001 certified and BABT approved manufacturer. Patton products are CE marked and Y2K compliant.

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