



Managed 4-Port LAN Extender/G.SHDSL Bridge RealConnect-4B

Overview

RealConnect-4B is a powerful, managed high performance G.SHDSL modem that integrates isolated LANs in a campus like environment, using commonly available telephone cables. RealConnect-4B delivers configurable line rates up to 4.6 MB (symmetrical) over a distance of 5 Km. Its incredible transmission speed (64Kbps to 4.6Mbps) enables service providers to adjust the traffic. A complex ASIC powered system uses G.991.2 G.SHDSL technology to provide 4.6 Mbps full duplex data rate. The embedded SNMP management interface of the RealConnect-4B, facilitates network administrators to complete a managed network deployment in a very short period. RealConnect-4B is used in pair to bridge the geographically separated LAN segments. RealConnect-4B automatically creates bridge between both LANs; it learns the MAC addresses on both side, and filters the traffic thereby enhancing security and bandwidth.



Key Features

- **RealConnect-4B** is a managed Ethernet G.SHDSL bridge.
- Supports standard management interfaces like SNMP, TELNET and Console
- Supports four Ethernet ports for connecting different user applications
- Interoperate with RealTime Realgain-4/4E leased Line Modems
- Complies with EMI/EMC specifications

DSL Features

- 2/4 wire operation for extended reach
- Fully compliant to industry standard ITU-T G.991.2
- Symmetrical speeds up-to 4.6Mbps
- Supports loop-back and BERT features
- Interoperable with RealTime's G.SHDSL Leased Line Modem, Realgain-4/4E

LAN Features

- Supports four auto-negotiation, auto MDIX Ethernet ports
- Complies with IEEE 802.3, IEEE802.3u and IEEE802.3x standards
- Supports MAC address auto-learning and auto-aging.
- Supports long packet size up to 1536 bytes
- Supports IEEE 802.1Q based & port-based VLAN with 16 entries (optional)

Configuration and Management

- Easy setup and remote management. There are three methods to logon to RealConnect-4B: serial console, Telnet, and through standard SNMP interface for OAMP operations
- SNMP management with MIB II
- Supports Backup and Restore Configuration

Security Features

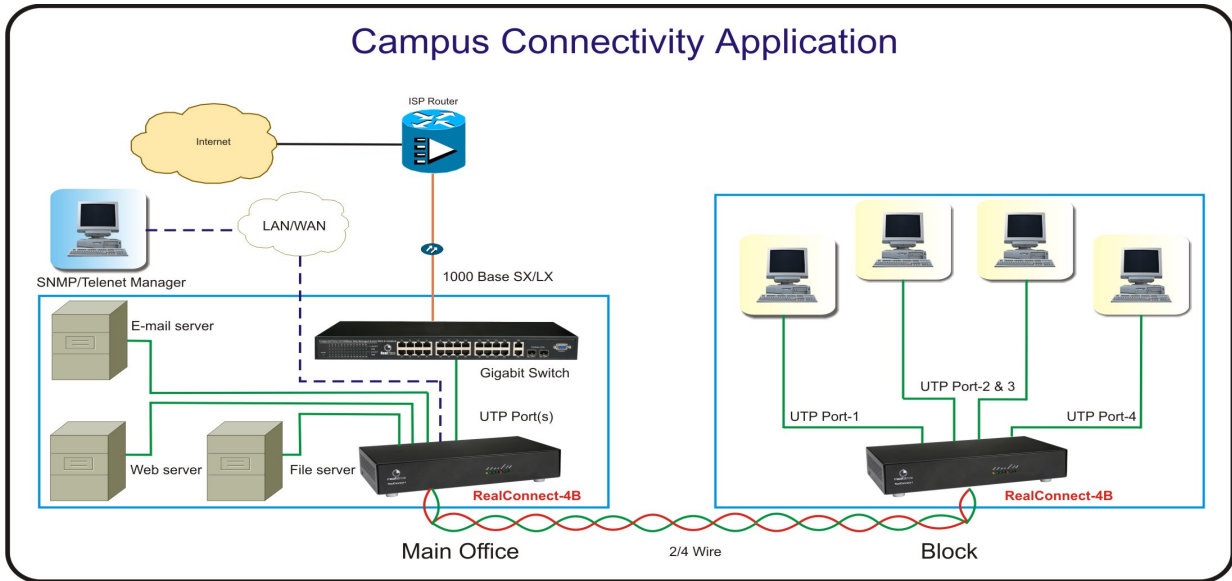
- Password - protected Configuration. Optional password protection is provided to prevent unauthorized users from modifying the configuration data and settings.

Applications

- Cost-effective solution for services such as remote lectures, telemedicine, video conferencing, Video-on-Demand (VoD), IP-TV, Internet access and various high-speed data applications.
- Cost-effective, high-performance broadband/multimedia services to Multi-Dwelling Units (MDU) and Multi-Tenant Units (MTU) environments such as hotels, campus, hospitals and telecom.



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Specifications

Interfaces	G.SHDSL, 2 Wire/4 Wire, 135ohms ; ITU-T G.991.2 Annexure B	
	Ethernet – 4-10/100 Base-T port	
DSL Coding	TCPAM-16	
Speed and Reach (G.SHDSL)	64Kbps to 4.6Mbps (N x 64kbps, N=1 to 72); <ul style="list-style-type: none"> Support speed of 2 Mbps for distance up to 5.2 km on 0.5 mm diameter single pair cable Support speed of 144 Kbps for distance up to 8km on 0.5 mm diameter single pair cable 	
LAN (Ethernet) Switch	10/100 Mbps Auto-negotiation, Auto MDI/MDI-X	
Ethernet Standards	IEEE 802.3, IEEE 802.3u and IEEE 802.3X	
Transparent Bridge	IEEE 802.1 D transparent MAC address learning bridge	
MAC Address Table Size	4096	
Maximum Frame Size	1536 bytes	
Cabling Standards	G.SHDSL: AWG26 or higher	
	Ethernet: UTP/STP Category 3,5 or higher	
Connectors	DSL: RJ11/RJ45, Ethernet: RJ45	
Protection	Compliant to ITU-T K.20 and K.21, to protect from lightning, accidental power and power surges	
Configuration & Management	SNMP, Telnet & Serial Console	
	SNMP and Telnet Management	Via user Ethernet interfaces
	Serial Console	Via External RS232 interface
LED Indications	Sync, Margin, RD, TD, Test, Fault, Link/ACT(per port basis), PWR	
Power Supply	230V AC Nominal (Range 160V to 260V)	
	-48V DC Nominal (Range -36V to -60V),	
Power Consumption	9 watts	
Operating Environment	Temperature: 0~55°C	
	Relative Humidity: 0~90 % (non-condensing)	
Dimensions LxWxH	276x136x42 mm	
Mounting	Desktop/Tabletop	
EMI/EMC	CISPR 22(1993) for class B equipments	



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Ordering Information

Model No.	Description
RealConnect-4B-200	G.SHDSL Bridge with 4port Switch 2Wire Unmanaged AC 220V Power Supply
RealConnect-4B-201	G.SHDSL Bridge with 4port Switch 2Wire Unmanaged DC 48V Power Supply
RealConnect-4B-202	G.SHDSL Bridge with 4port Switch 2Wire Unmanaged AC & DC Power Supply
RealConnect-4B-400	G.SHDSL Bridge with 4port Switch 4Wire Unmanaged AC 220V Power Supply
RealConnect-4B-401	G.SHDSL Bridge with 4port Switch 4Wire Unmanaged DC 48V Power Supply
RealConnect-4B-402	G.SHDSL Bridge with 4port Switch 4Wire Unmanaged AC & DC Power Supply
RealConnect-4BM-200	G.SHDSL Bridge with 4port Switch 2Wire Managed AC 220V Power Supply
RealConnect-4BM-201	G.SHDSL Bridge with 4port Switch 2Wire Managed DC 48V Power Supply
RealConnect-4BM-202	G.SHDSL Bridge with 4port Switch 2Wire Managed AC & DC Power Supply
RealConnect-4BM-400	G.SHDSL Bridge with 4port Switch 4Wire Managed AC 220V Power Supply
RealConnect-4BM-401	G.SHDSL Bridge with 4port Switch 4Wire Managed DC 48V Power Supply
RealConnect-4BM-402	G.SHDSL Bridge with 4port Switch 4Wire Managed AC & DC Power Supply

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