

G.shdsl Ethernet-Extender



Key Features

- ▶ 3 Products in 1: Bridge, Router, Gateway
- ▶ 2-wire or 4-wire G.shdsl Support
- ▶ G.shdsl Standard Compliance Delivering up to 4.6Mbps
- ▶ DHCP and DNS Support
- ▶ ATM Support with PPPoA/IPoA/RFC1483/PPPoE
- ▶ Basic Firewall Protection
- ▶ Virtual Private Networks Support
- ▶ Web-based Management
- ▶ Local and Remote Administration and Firmware Upgrade

Black Box' Ethernet Extender MDS2205AE is an integrated bridge, router, and gateway with 2-wire and 4-wire G.shdsl support for flexible DSL access, and a four-port 10/100BASE-T Ethernet switching hub allowing up to four PCs or devices to be connected directly to the Ethernet Extender MDS2205AE without the need for a separate hub.

Designed for businesses requiring high speed Internet or LAN-to-LAN access for mission critical applications, the Ethernet Extender MDS2205AE uses nextgeneration G.shdsl to deliver scalable bandwidth up to 4.6Mbps, enabling voice, video, and data convergence over the networks, and high speed symmetric DSL Access at above 2.3 Mbps beyond the coverage area serviced by traditional DSL or 2-wire G.shdsl.

Based on the worldwide G.shdsl (ITU-T G.991.2) standard, the Ethernet Extender MDS2205AE provides businesses such advantages as unrivaled rate/reach, excellent tolerance to noise, and bridged taps. All of these advantages will enable

Service Providers to provide increased end user satisfaction at low system cost.

The Ethernet Extender MDS2205AE has been designed to interoperate with existing routers and firewalls, and to be installed on a company's existing network infrastructure, thus protecting an organization's initial capital outlay. The Ethernet Extender MDS2205AE contains a four-port 10/100BASE-T configurable switching hub, and capable of operating as a bridge, router, or gateway device. The Ethernet Extender MDS2205AE supports DHCP, DNS for easy LAN setup, and has built-in basic firewall and VPN support to provide new network installation with secure data on an always-on DSL connection.

The Ethernet Extender MDS2205AE, with its integrated G.shdsl 4-wire technology, enables high-speed symmetric DSL access at above 2.3 Mbps beyond the coverage area serviced by traditional DSL or 2-wire G.shdsl.

The Ethernet Extender MDS2205AE scales as network and bandwidth needs

expand. Once installed, speeds up to 4.6 Mbps can be provisioned over the network without the need for additional expensive truck rolls. This also reduces capital costs and operating expenses through device consolidation.

Integrated with an easy-to-use Web-based management system, the Ethernet Extender MDS2205AE reduces maintenance and deployment costs with its remote management capability, configuration store/restore facility, and firmware download support.

The Ethernet Extender MDS2205AE offers auto-sense 10/100BASE-T for automatic discovery of Ethernet speed and auto MDI/MDIX capability, allowing automatic detection and line pairs switching. This eliminates the need to configure port speed as well as the need for crossover cables.

Specifications

SHDSL Features —

- ITU-T G.shdsl (G.991.2)
- Configurable: 2-Wire or 4-Wire mode
- Signal Format: TC-PAM
- Data Rate:
64KBPS ~ 2.3 Mbps for 2-Wire mode
128KBPS ~ 4.6 Mbps for 4-Wire mode
- Connector: RJ-11
- Impedance: 135 Ω

ATM Features —

- RFC1483 Encapsulation (IP, Bridging, and Encapsulated Routing)
- PPP over ATM (LLC & VC Multiplexing) (RFC2364)
- Classical IP (RFC1577)
- Supports 8 PVCs
- Traffic Shaping
- OAM (I.610) Support
- PPPoE Relay
- PPPoE Client

LAN Features —

- DHCP Server
- DHCP Client
- DHCP Relay
- DNS Relay

Routing Features —

- Dynamic Routing with RIP
- Static Routing

Management Features —

- Plug-and-Play Installation
- Local and Remote management
- Web-Based Configuration
- Console port for local Management
- TELNET Configuration
- Command Line Interface
- Firmware upload/download via TFTP/BOOTP and WEB-BASED Management
- Alarm Status and Power Indicators
- Event Logging

Security Features —

- Firewall
 - Packet Filtering
 - NAT
 - NAPT
- VPN
 - PPTP Support
- Password protected Configuration Access
- User Authentication (PAP/CHAP) with PPP

Physical Features —

- Four-port Auto-sensing 10/100BASE-T Ethernet Hub (RJ-45) with automatic MDI/MDIX for each Port
- ONE G.shdsl PORT (RJ-11)
- WAN/LAN status & power and ethernet LED indicators
- Console Port

Physical Specifications —

- Height: 1.75 IN.
- Width: 12 IN.
- Depth: 8.4 IN.
- Weight: 3 LBS

Power Requirements —

- 100-240 VAC, 50/60 HZ

Operating Environments —

- Temperature: 0° to 40 °C
- Humidity: 5% to 90% RH non-Condensing minimum System requirements
- Any Computer with an Ethernet 10BASE-T or 100BASE-T Interface
- Any operating System that Supports an Ethernet Connection with an IP stack regulatory approvals
- UL 1950
- TUV
- FCC PART 15 CLASS A
- FCC PART 68
- CE MARK
- IEC 60950, CSA 950/US

Ordering information

ITEM

CODE

G.shdsl 4,6Mbps, Bridge & Router, 4-wireMDS2205AE

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