BLACK BOX®
NETWORK SERVICES

MDS4300AE

Key Features

▶ High-speed symmetrical 12.5Mbps communications link

▶ Extends Ethernet connections up to 1.3 km

▶ Easy 2-wire VDSL connection via built-in RJ-45 or 2-position terminal block

▶ Passes higher layer protocols and supports 802.1Q (VLAN tagging)

▶ Automatic learning and aging address table

▶ Five LEDs monitor power, VDSL link and status, Ethernet link and activity

▶ Auto-sensing 10 or 100BASE-T and full or half-duplex Ethernet operation

▶ No configuration required!

The MDS4300AE VDSL Modem offers a cost-efficient and reliable solution for delivering full service integration over a high-speed, line sharing, symmetrical, 12.5Mbps link.

The Model MDS4300AE is an economical solution to connecting peered 10/100BASE-T Ethernet LANs; reaching remote PCs and equipment; or delivering last-mile ISP services-all at 12.5Mbps! The Model MDS4300AE offers premium performance over your existing voice-grade telephone wire, eliminating the cost of installing new LAN grade cable or expensive fiber.

The Model MDS4300AE VDSL Modem is compact, easy to install, and transparent to higher layer protocols. Simply connect the network equipment to the shielded Ethernet RJ-45F jack. The Model MDS4300AE will auto-sense and configure for 10BASE-T or 100BASE-T as well as full or half-duplex Ethernet operation. No configuration is required! Whether you are looking to improve your increase the efficiency of your existing wiring infrastructure or delivering integrated services to your customer, the Model MDS4300AE is the perfect choice.

Ethernet Extension
Used in pairs, the Model MDS4300AE establishes a high-speed, line sharing, symmetrical 12.5Mbps data link. The Model MDS4300AE inter-connects two geographically separated LANs over a voice-grade twisted pair wire. Operation is simple: packets destined for the remote LAN are sent transparently, at full line rate, to the peered LAN.

Caution: This device is not intended to be connected to the public telefon network.

Specifications

VDSL Interface — RJ-45 (pin 4= tip; pin 5= ring) and two-position terminal block (supports 19-26 AWG)

Ethernet Interface — 8-position shielded RJ-45. Auto-sensing 10/100Base-T with half or full-duplex operation

POTS/BRI ISDN Interface — RJ-45 (pin 4=ring; pin 5=tip)

Protocol — Transparent to high layer protocols. Supports 802.1Q VLAN tagging

Modulation — QAM (Quadrature Amplitude Modulation)

Duplexing Method — FDD (Frequency Division Duplexing)

Frequency Range — VDSL 1-8Mhz; POTS/ISDN: 0-120kHz

Transmission — VDSL line rate: 12.5 Mbps; Data rate: 10 Mbps full-duplex

Surge Supression — VDSL maximum current surge: 20kA (8/20_s) gas tube

Front Panel Indicators — Power, VDSL Link and QOL, Ethernet Link and Activity status

External Power Supply Options —
• AC: 120VAC and Universal Power Supply (100-240 VAC)
• DC: -48VDC, -24VDC, and -12VDC (optional upon request)

Compliance — FCC Part 15 Class A and Part68 A & B; EMC Directive 89/336/EEC, Low Voltage Directive 73/23/EEC; CE Mark

Temperature — 0 to 50°C

Altitude — 4.5 km

Humidity — Up to 90% non-condensing

Dimensions —
• Standalone:
  3.81H x 10.5W x 9.53D cm
• Rack card:
  7.6 H x 2.1 W x 19.9 D cm)

Weight —
• Standalone: 0.18kg without power supply
• Rack card: 0.14kg with rear card

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Ordering information

ITEM	CODE
12.5Mbps VDSL Bridge, 2 Wire, local & remote unit	MDS4300AE