BLACK BOX®

NETWORK SERVICES

High-Speed G.SHDSL Ethernet Extender

Key Features

- High-speed symmetrical data transmission over one or two physical copper twisted pair with the 135 Ohm impedance according to ETSI TS 101 135.

- ITU-T G.991.2 (G.shdsl) line encoding.

- *Line rate in the range from:* 72 Kbit/s to 2312 Kbit/s in 2 wire mode; 144 Kbit/s to 4624 Kbit/s in 4 wire mode

- Ethernet 10/100BASE-T interface, Full/Half duplex.

- Transmition of VLAN packet (IEEE-802.1Q).

- Dynamic table formation of MAC addresses.

- Accumulation of up to 1024 MAC addresses.

- Granting of 95% of the digital channel band to the user.

- In-built functions of diagnostics and self-testing.

- Low power consumption, easy-to-use applications.

- Console port for the local management.

- Telnet port for the local / remote management

- 220 Vac power

Faster and Easier Internet Access and LAN-to-LAN Interconnection

Discovery modems equipped with Ethernet interface are targeted to meet IP-world needs. Discovery as CPE equipment is interoperable with many of G.SHDSL DSLAMs. Discovery Ethernet can be also used in a central office; especially effective for small and medium size POPs. Finally, typical campus applications like LAN-to-LAN bridging over a few kilometers long copper pair are natural for Discovery with its transparent bridge functionality.

System administrator will be impressed with flexibility of management options. Simple and easy-to-use command menu is accessible via local serial port, Telnet. Password protection guaranties network security.

Discovery series can be delivered in two types of mechanics designed to meet CO, campus and SOHO needs. It is subrack plug-in card version for installation into universal 19" 6U subrack and stand alone version for desktop use.

Easy and cost-effective Internet Access LAN-to-LAN interconnection.

Specifications

Line code —
G.SHDSL, 1 or 2 pair

Reach — 0.4 mm 0.9mm
144 kbps 8.2 km 31 km
2320 kbps 3.6 km 13.7 km

Line rates 1 pair —
72, 136, 200, 264, 328, 392, 456, 520,
584, 648, 712, 776, 840, 904, 968,
1032, 1096, 1160, 1224, 1288, 1352,
1416, 1480, 1544, 1608, 1672, 1736,
1800, 1864, 1928, 1992, 2056, 2120,
2184, 2248, 2312 kbps
manual or automatic mode of line speed
adjustment

Line rates 2 pair —
144, 272, 400, 528, 656, 784, 912,
1040, 1168, 1296, 1424, 1552, 1680,
1808, 1936, 2064, 2192, 2320, 2448,
2576, 2704, 2832, 2960, 3088, 3216,
3344, 3472, 3600, 3728, 3856, 3924,
4112, 4240, 4368, 4496, 4624 kbps
manual or automatic mode of line speed
adjustment

Line Connector —
Table top: RJ45
Rack card: RJ45

Monitor —
RS232 DB9F

User Interfaces —
1x 10/100BaseT RJ45 (PC or HUB)
Auto Negotiation

Bridging —
IEEE 802.3, IEEE-802.1q, IEEE-802.1d
(Spanning Tree Algorithm)

Management —
VT100
TELNET

Electrical —
AC Adapter: Input 230VAC, 50/60Hz
Output: 12VDC 800mA
Safety: UL & CE, EMC/EMI, FCC
Surge: Meet IEC 1000-4-5 class 2
Rehabilit: MTBF >35'000 Hours

Over voltage Protection —
ITU-T Rec. K.20/K.21

Phisical dimensions —
Stand Alone:220 x 170 x 40mm / 0.5kg
Rack card: 235 x 261 x 31mm / 0.5kg

▼ *Ordering information*

ITEM	CODE
2.3/4.6Mbps, 1 or 2 pair Tabletop Ethernet Extender	MDS933AE-10BT
2.3/4.6Mbps Rack card, 1 or 2 pair Ethernet Extender	MDS933C-10BT
Rack-Chassis 19", 14-Slot, 2 x 48VDC input	MDS920AE-RM
Power Supply 19", 1 x 48VDC/80W	PSS48VDC-RMS

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On the Phone — no charge, answer calls in less than 20 secounds, find the right product with our technical experts.

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On-line — receive technical knowledge on-line, including technology overviews, Black Box Explains and the Knowledge Box.

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