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Black Box Corporation.

BLACK BOX[®]

NETWORK SERVICES

G.HDSL Modems



Add High Speed Copper Connection to your fibre system.

Key Features

- ▶ Data rates in 64 kbps steps up to 2.048 Mbps.
- ▶ For 2- or 4-wire copper circuits.
- ▶ Standalone chassis or rackmount card versions.
- ▶ Multiple interfaces available.
- ▶ Configurable from a remote location, SNMP management capabilities.
- ▶ Full local and remote loops plus comprehensive test facilities.

High-speed data delivery

This feature-loaded baseband modem delivers high-speed data across telecommunications networks. With a mix of standalone and rackmount card models in the family to choose from, the BLACK BOX[®] G.HDSL Modem is the perfect choice whether you want to use an integrated modem to connect your LAN or to connect remote office PBX over leased lines.

Using the latest line coding techniques, the G.HDSL Modem enables you to use twisted copper pairs to drive data at rates up to 2.048 Mbps. For optimum performance, the modem has multiple programmable transmission line rates. Operate the G.HDSL Modem at a lower speed to achieve the greatest distance.

This versatile baseband modem is designed to deliver framed or

unframed E1 or Fractional sub-E1 (N x 64 kbps) services over copper twisted pairs. In point-to-multipoint mode, the modem can be used to deliver Fractional G.703 or N x 64 kbps service to two remote sites from a single central office via a G.703 E1 connection.

With its comprehensive test, diagnostic and alarm reporting capabilities, the G.HDSL Modem requires no extra test equipment. In point-to-point mode, integral line fault-sensing circuitry prompts prioritised timeslot switching during line failures.

This switching feature, coupled with the modem's line degradation performance-monitoring capabilities, results in improved QoS and reduced down time.

User-friendly management features are included with the G.HDSL Modem, including comprehensive SNMP capabilities and a

VT100[™] terminal interface.

For high-density applications, order the card versions along with a managed 19" (48.3-cm) card chassis (RMU2048-R2), which houses up to 12 cards in a 6U rackmount enclosure. Standalone modular interfaces are available with G.703, X.21 and V.35 options. The Ethernet interface, available on both the standalone model and as a plug-in card, has an additional USB port and powerful built-in bridging and routing capabilities. It gives you a very cost-effective means of bridging LANs and connecting remote offices to a central site.

Mix Copper & Fibre

For even more flexibility you can use the Black Box Optical E1 Baseband Modems (MDU2048-xx) in the same Rack for both last mile copper and fibre connection.



Specifications

Connections

Data Interface —

G.703, 75 ohm: BNC;
120 ohm: RJ-45;
X.21: DB15; V.35:
M/34 (Winchester);
Ethernet: RJ-45; USB:
Type A USB

Management

Indicators — Standalone
models: LEDs:
Power, Alarms, Test,
Loops

Engine (Modem)

Technology — G.HDSL
Line Coding — 2B1Q,
CAP, G.SHDSL
(software
programmable)

Line Rates — Per wire
pair: 528 Kbps, 784
Kbps, 1040 Kbps,
1552 Kbps, 2064
Kbps

Data Rates — 64
Kbps–2.048 Mbps,
N x 64Kbps (in 64
Kbps steps)

Operating Environment

Operating Temperature —
0° to +45° Celsius

Power — 110-230V, 50-
60Hz

Size — 5.5H x 25W x
27D cm

Weight — 3.0 K



Ordering Information

Item	Code
G.HDSL Modem Standalone	
G.HDSL Modem Standalone with G.703 Interface	MDU248A-G703
G.HDSL Modem Standalone with X.21 Interface	MDU248A-X21
G.HDSL Modem Standalone with V.35 Interface	MDU248A-V35
G.HDSL Modem Standalone with 10Mbps Ethernet Interface	MDUE248A
G.HDSL Modem Rack Mount Card	
G.HDSL Modem Rackmount Card with G.703 Interface	MDU248C-G703
G.HDSL Modem Rackmount Card with X.21 Interface	MDU248C-X21
G.HDSL Modem Rackmount Card with V.35 Interface	MDU248C-V35
G.HDSL Modem Rackmount Card with 10Mbps Ethernet Interface	MDUE248C
Rackmount Chassis	RMU2048-R2

