

GM-2000V

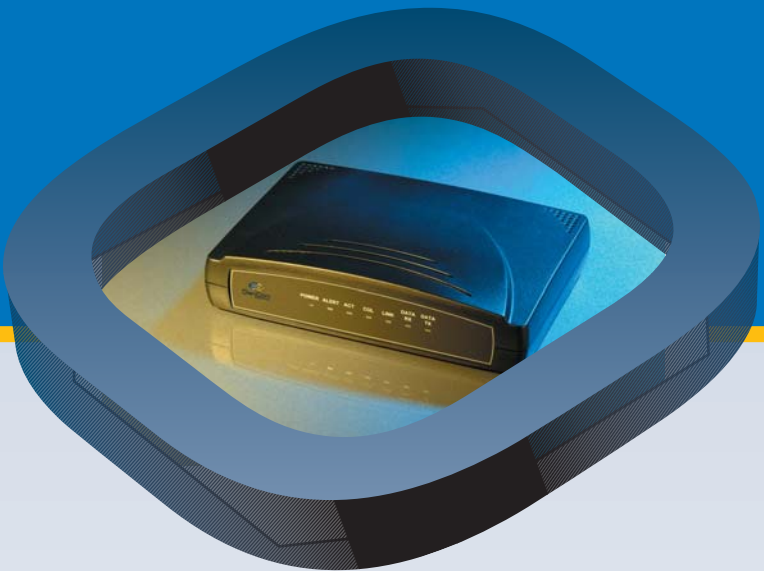
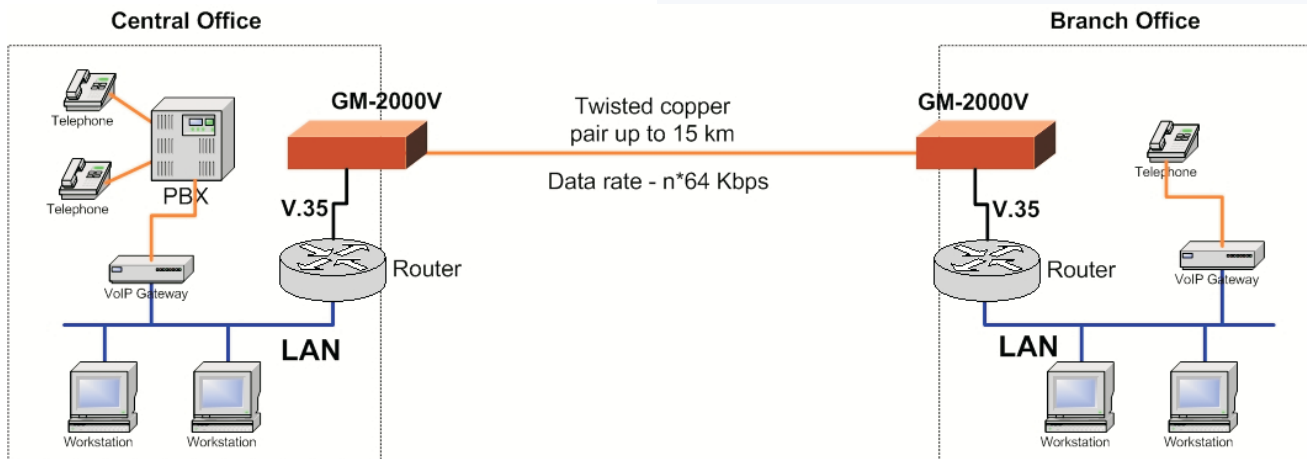
SHDSL NTU w/V.35 interface

Description

The GM-2000V / GM-2000E / GM-2000T SHDSL NTU series provides symmetric transmission over a single twisted pair of telephone lines. The GM-2000V has an industry standard V.35 interface, while the GM-2000E has a G.703 E1 interface, GM-2000T has a T1 interface. Based on TC-PAM coding, the GM-2000V supports multiple transmission rates up to 2,320 Kbps. In addition to software configurable line rates, the GM-2000V also supports a rate adaptation function. They are ideally suited to leased line applications such as video conferencing, Internet access, and digital data network (DON) access, etc.

Featuring a powerful remote control capability, the local NTU can perform configuring, PM monitoring, querying, diagnostics and all maintenance functions on the remote NTU via the DSL line.

GM-2000V application



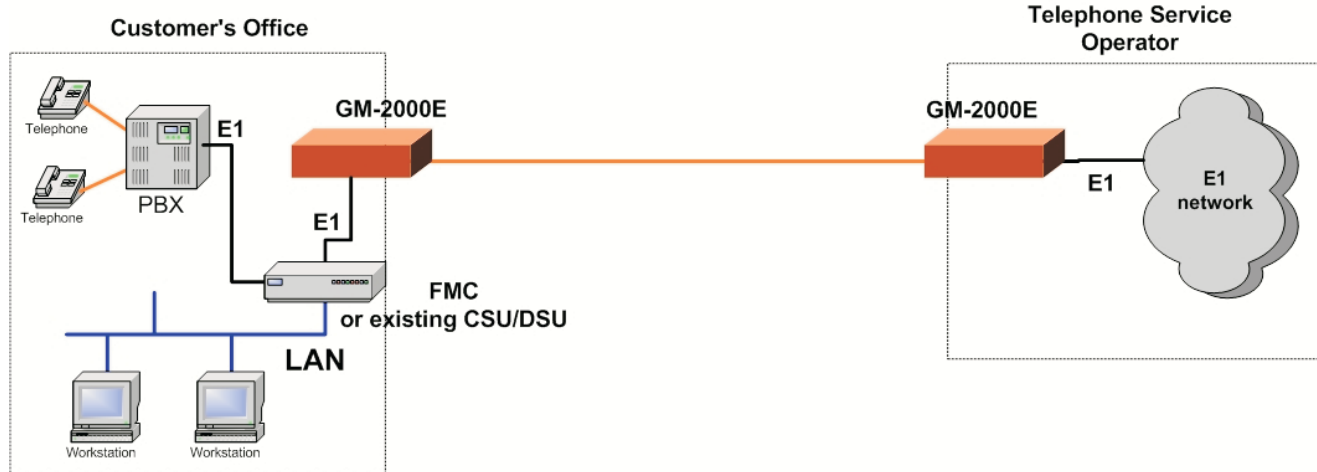
Features

- ✓ Full remote control capability via SHDSL Embedded Operation Channel
- ✓ Complies with ITU-TG.991.2 (G.shdsl)
- ✓ Versatile DTE options: V.35, E1, T1
- ✓ Data rate: $N \times 64$ Kbit/s ($N=3 \sim 36$)
- ✓ Supports Auto-baud for easy installation
- ✓ Versatile loopbacks for diagnostics, including V.54
- ✓ Built-in test pattern generator /detector
- ✓ SHDSL & T1/E1 line performance monitoring
96-quarter / 7-day PM storage
- ✓ Local control via RS-232 management port (VT-100) and LAN port (Telnet access)
- ✓ SNMP management through Ethernet LAN port
- ✓ Software download via X-MODEM or TFTP for rapid and easy upgrades

GM-2000E

SHDSL NTU w/E1 interface

GM-2000E application



Product Specifications

DSL Line

Encoding scheme	TC-PAM
Media	Single twisted pair
Line rate	Per ITU-T G.991.2 (G.SHDSL)
Payload rate	N x 64 Kbps, N=3~36
Connector	RJ-45 female

DTE Option

V.35 (GM-2000V)	Data rate: N x 64 Kbps, N=3~36 Connector: M34 female
E1 (GM-2000E)	E1 interface: ITU-T G.703 E1 frame: Unframed (transparent mode) E1 line type : both 120W symmetrical and 75W coaxial E1 connector: both RJ-48C and BNC are provided
T1 (GM-2000T)	T1 interface: ITU-T G.703 T1 line code: AMI or B8ZS T1 frame: SF or ESF (transparent & non-transparent modes) T1 connector: RJ-48C

Timing

Loop, Internal, DTE

Diagnostics

Loopback function	DSL, E1, T1
Loopback types	Local Loopback, Remote Loopback, V.54 Loopback
Built-in test patterns	511, 2047, PRBS (2 15-1)

Management

Local interface	RS-232/DB-9 for VT-100
Telnet access	10 BaseT Ethernet port
SNMP management	10 BaseT Ethernet port, Embedded SNMP agent
Remote management	Through EOC

Physical

Dimension	242 mm (W) x 60 mm (H) x 167 mm (D)
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Power

Input voltage	AC 110 V or AC 220 V, or -48VDC (ordering option)
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Power Consumption 7W Max.

Environmental Requirements

Temperature	0~50 degrees Celsius
Humidity	5% ~ 95% RH (non-condensing)

