



## eToAccess - G.SHDSL 3 in 1 TDM NTU GH5030

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### G.SHDSL TDM NTU Description

The eTo GH5030 series G.SHDSL NTU is a telecommunication product for carriers or SME users. The GH5030 can offer three DTE interfaces (E1, V.35 and Ethernet), which can work simultaneously to share the DSL bandwidth. This user-configurable interface during the installation provides a flexible design for various connections. The SHDSL NTU supports two different connectors on G.703 E1 application, which provide the connections to TDM service (either balanced 120Ω RJ45 jack or unbalanced 75Ω dual BNCs) by the bit rate from 64kbps to 2.048Mbps. As a V.35 interface application, it links to high-speed TDM services by a DB25 interface, which can work as V.35/RS-530 or V.36/X.21 (factory setting) connections. The data rate of DB25 interface is up to 2.304Mbps with one pair copper wires. The SHDSL NTU provides the 10/100Mbps auto-detected Fast Ethernet by a RJ45 connector which offers customer premise from LAN to high-speed TDM services. The SHDSL NTU can be configured and managed via EOC, or menu-driven VT100 compatible Asynchronous Terminal Interface, either locally or remotely. The SHDSL NTU provides the capability that identifies the maximum line rate supported by the copper loop. This powerful automatic configuration capability makes installation and service provision simple and painless. Furthermore, it provides flexible manual setting of the maximum NTU speed at different levels for different customer-tailored service offerings.



G.SHDSL 3 in 1 TDM NTU

### G.SHDSL TDM NTU Feature

- Standard G.shdsl (ITU G.991.2) supports for improved reach/speed and greater interoperability
- Fast and cost-effective provisioning of traditional frame relay (FR or T-HDLC) or TDM leased line services
- User existing copper loop infrastructures
- Can operate back to back connection
- Efficient single wire pair usage
- up to 2.3Mbps symmetric service bit rate
- Auto rate installation maximizes data rate base on loop conditions
- Auto configuration maximizes data rate on loop conditions
- Local management interface with LCD display
- Remote line loopback
- SHDSL Line performance monitoring
- Raw and per time interval statistics
- Bandwidth guarantee transmission equipment
- Remote firmware upgrade

### G.SHDSL TDM NTU Specification

#### Network interface

- Line Rate : SHDSL per ITU G.991.2
- Coding : TCPAM-16
- Support : ANSI (Annex A) and ETSI (Annex B)
- Payload rates : 64Kbps to 2.304Mbps N x 64kbps (N= 1 to 36) for serial and Ethernet interface
- 64kbps to 2.048Mbps (Nx 64Kbps N=1 to 32) for E1

#### G.703 interface (as E1)

- Connection: RJ-45 for balanced 120Ω E1 cable
- Connector: BNC for unbalanced 75Ω E1 cable
- Framing PCM30/30C/31/31C and Unframed
- Data Rate : 64Kbps to 2.048Mbps (Nx64Kbps N=1 to 32)
- Operation: Full E1 and Fractional E1

### G.SHDSL TDM NTU Specification

#### SERIAL Interface (as V.35)

- Connection : DB25(F)
- Payload Rates : Up to 2.304Mbps (N=1 to 36)
- Support RS-530, V.35 or V.36/X.21

#### LAN Interface (as Ethernet)

- single Ethernet Interface
- 10/100Mbps Half/Full Duplex, Auto-sensing, Auto-MDI/MDI-X
- Up to 2048 MAC learning, filtering bridge

#### DSL Timing

- Internal
- From E1 Recovery (as E1)
- From DTE (as V.35 and Ethernet)

#### Performance Monitoring

- ES, SES, UAS, LOSW, Alarms, Errors

#### Loopback Tests

- Digital Local Loopback
- Digital Loopback
- Remote Line Loopback
- Remote Payload Loopback
- Far-end Line Loopback
- Far-end Payload Loopback
- V.54 Loopback (For V.35 interface only)
- Build-in 2047 bit (2<sup>n</sup>-1) BER tester

#### Management

- Configuration with keypad and LCD display
- Console port
- Support firmware upgradeable

#### Physical /Electrical

- Dimensions : 19.5 x 4.8 x 16.8
- Input : 90-240 VAC with 50~60Hz or - 48 VDC
- Power Consumption : 10W Max
- Operation : 0 to 50 Degree C
- Humidity : Up to 95%(non-condensing)