



ISO 9001:2000 Certified Company

AT-5099B

Description

The ANDA Telecom (AT)-ANDA series SHDSL NTU is a telecommunication product for carriers or SME users. The AT-5099B 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 connection to TDM services (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) connection. 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 provisioning simple and painless.



Furthermore it provides flexible manually setting of the maximum NTU speed at different levels for different customer-tailored service offerings.

Features

- ✓ Standard G.SHDSL (ITU G.991.2) supports 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 one and two pair wires usage
- ✓ Up to 2.312Mbps symmetric service bit rate
- ✓ Auto rate installation maximizes data rate based on loop conditions
- ✓ Auto configuration wetting current to protect SHDSL line

ANANDA Telecom Pvt. Ltd.

(an ISO 9001-2000 company)

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- ✓ Local management interface with LCD display
- ✓ Remote line loopback
- ✓ SHDSL Line performance monitoring (Data Rate and SNR)
- ✓ Raw and per time interval statistics
- ✓ Bandwidth guaranteed transmission equipment
- ✓ Remote firmware upgrade

Specification

WAN Interface

- Line Rate: SHDSL per G.991.2
- Coding: trellis coded pulse amplitude modulation (TCPAM-16)
- Support: Annex A(ANSI) and Annex B(ETSI)
- Payload rates: 64kbps to 2.304Mbps (N x 64kbps N=1 to 36) for Serial and Ethernet interface
- 64kbps to 2.048Mbps (N x 64kbps N=1 to 32) for E1 interface
- Connection: RJ-45 jack
- Impedance: 135 ohms

G.703 Interface (as E1)

- Connection: RJ-45 for balanced 120Ω E1 cable
- Connection: BNC for unbalanced 75Ω E1 cable
- Line Rate: 2048KHz +/- 50ppm
- Framing: PCM30/30C/31/31C and Unframed
- Data Rate: 64Kbps to 2.048Mbps (Nx64Kbps , N=1 to 32)
- Operation: Full E1 and Fractional E1

SERIAL Interface (as V.35)

- Connection:DB-25(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/MDIX
- Up to 2048 MAC address 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 (for E1 and V.35 interface only)

- Digital Local Loopback
- Digital Loopback
- Remote Line Loopback
- Remote Payload Loopback
- Far-end Line Loopback
- Far-end Payload Loopback
- V.54(For V.35 interface only)
- Build-in 2047 bit (2¹¹-1) BER tester

Management

- Configuration with keypads and LCD display
- Console port (RJ45, RS232)
- Support firmware upgradeable

Physical/Electrical

- Dimensions: 19.8 x 4.6 x 16.8 cm
- Input: 90~240VAC with 50~60Hz
- Power Consumption: 10W Max
- Operation temperature: 0 to 50°C
- Humidity: Up to 95% (non-condensing)
- External screw for frame grounding

Model Information

Model no.	AT-5099B (E1)	AT-5099B (V.35)	AT-5099B (Ethernet)	AT-ANDA - (Combo)
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E1 Interface	•			•
V.35/X.21 Interface		•		•
Ethernet Interface			•	•

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