

AT-5099B



PRODUCT OVERVIEW: - **AT-5099B** series, G.SHDSL modem, transports multi mega bit stream over one pair of copper wires using TC-PAM technology. This modem supports multiple data rates ranging from 64 Kbps to 5.7Mbps. It have Fast Ethernet 4 ports and 1 slot for install and choice of either V.35, Syn data interface or E1 interface or G.703 Co-directional 64K.interface.

The **AT-5099B** series uses in-band Embedded Operation channel for controlling and monitoring the remote unit. The comprehensive diagnostics function developed includes G.SHDSL, E1 line performance monitoring, in-band local and remote loop backs and real time alarm report.

HTTP and SNMP management interface facilitate friendly configuration and diagnostics, Optional LCD display or dip-switch for panel management

FEATURES

- Meet ITU-T G.991.2 ETSI TS101 524.
- Support data rate from 64Kbps to 5.7Mbps per 64Kbps increment.in 2 wires
- 4 wires option data rate up to 11.4Mbps
- Feature modular V.35, E1 G.703, 64K Co-directional
- Provide remote control and monitoring using in-band EOC channel.
- Support DSL PRBS BER test.
- Support local, remote loop back.
- Perform G.SHDSL and E1 line performance monitoring.
- Provide 96*15 minute and 7*24 hours performance data storage.
- Detect and operate DSL loop crossover.
- Support optional LCD display and SNMP management interface.
- Support optional SNMP in-band management and Web GUI
- Support remote download and configuration.
- Support different DTE interface can work simultaneous by sharing the DSL bandwidth
- Support G.bis data rate, 2/4 (option) wires or rate up to PAM 128 (option)

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SPECIFICATION

▪ G.SHDSL line

Line Coding	16 TC-PAM, 32 TC –PAM is selectable
Line Rate	192K Bps' 57000 Kbps for one DSL loop
Protection	ITU-T K.20, K.21 and IEC60950
Standard	ITU-T G.991.2, Annex A (Default), Annex B
Impedance	135U+/-5%
Connector	Rj45 * 1

▪ System Timing

Payload Timing

- 1) Internal Clock, accuracy +/-30ppm
- 2) E1 Input Clock
- 3) Data Port DTE Clock [TT]
- 4) Line Recovered Clock

▪ SHDSL Timing

- 1) Plesiosynchronous, local oscillator: 22.1184MHz +/- 32ppm
- 2) Synchronous
- 3) Hybrid

▪ Data Interfaces

◆ LAN Interfaces

Interface	IEEE 802.3/802.u 10/100 Base-T
Data Rate	up to 5.7Mbps / Nx64Kbps.
Bridge	IEEE 802.1D transport, self-learning
Connector	RJ-45(1 / 1+4)

◆ E1 Interface

Line Rate	2048KHz +/- 50 ppm
Line Code	HDB3
Framing	PCM31, PCM30, PCM31C, PCM30C and unframed
Data Rate	64 Kbps to 2048K bps [NX64Kbps, N=1 - 32]

Operation	Full E1 or fractional E1
Pulse Shape	Meet ITU-T G.703
Impedance	balanced 120Ω +/- 5% resistive or unbalanced 75Ω +/- 5% resistive
Connector	120ohm RJ45 x 1 or 75ohm BNC x 1

◆ V.35 Data Port Interface

Interface	V.35
Data Rate	64 Kbps to 4608 Kbps
Connector	DB25F x 1 (DB25 to MR34 adaptation cable provided)

◆ G.703 Co-directional Data Interface

Interface	64K Co-directional
Connector	RJ-45 * 1

■ Maintenance

Loopbacks: Local and remote AL/DL loopbacks via front panel loopback buttons,
 VT-100 menu screen or in-band loopback codes
 DSL PRBS BER testing
 SNR, LOSW, ES, SES and UAS for DSL loops
 Supports G.821 and G.826 error performance statistics for E1 interfaces

■ Management Interface

Optional LCD Display	Quick mode configuration, diagnostics and monitoring
Optional SNMP/Telnet	Telnet access and an optional SNMP agent support. Web management is optional

■ Jitter and Wander

Meets G.823 and G.824 jitter and wander requirements for E1 interface

■ Power input

DC	36 ~ -72 VDC
AC	90 ~ 260V AC (47 ~ 63 Hz)
AC	The AC and DC power inputs can be served as power protection mutually.

■ Dimensions

Enclosure: 234.4mm x 155.5mm x 44.2 mm (WxLxH)

■ Environment

Temperature:	0 ~ 60 degree C
Humidity:	Up to 95% non-condensing

■ CE marking:

EN 55022 and 55024 compliant

Safety	EN60950 compliant
Surge Immunity	L1:L2 1KV , L1/L2:PE 2KV
Lighting Surge	4KV

APPLICATION

Following Figure (a) shows a point to point application for user interface E1, LAN and V.35.

Dual Bearer (TDM: E1 and V35 + EFM: LAN)



Figure (a): Point to Point application

The STU-C shown on Figure (b) facilitates the transport of user time slot, via the E1 interface at central office, eliminating CSU/DSU required, to remote branch

TDM: E1 or V35 or LAN



Figure (b): Dynamic transport at central office

ORDERING INFORMATION: -

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