High-speed digital subscriber line

The *SDTU-01* Series of Symmetrical Digital Subscriber Line (SDSL) products provide a transport infrastructure for Public Network WAN access, Internet Access, LAN-to-LAN connectivity and other high speed access applications.They are ideal for end user connection to Network Service Providers wishing to deliver high speed network data to their customers. Based on reliable 2B1Q transmission technology, this product delivers symmetrical multi-rate data transmission from 144Kbps up to 2320Kbps full duplex data over a single twisted pair of conventional copper wire telephone line.

With the *SDTU-01's* simple connection through a single pair of copper wire telephone line, the subscriber's PC on a network can easily gain access to the WAN with performance at optic like quality (BER10^{-8}), over a distance up to 20Kft/6 Km (@144Kbps rate).

The *SDTU-01* is fully compatible with the Promatory (Nortel) IMAS, Nokia D50, and Lucent Stinger Central Office side SDSL DSLAMs. The SDTU-01 can be managed through via a local serial terminal or through Ethernet connection to the Local Area Network by Telnet.

SDTU-01 Transmission Unit

Features

- SDSL multi-rate modems transport with 10Base-T Ethernet Interface. (built-in 4 port HUB)
- Bridging/Routing (Nortel and Nokia)
- Bridging Only (Lucent Stinger)*
  Transparent bridging (IEEE802.1 D)
  RFC 1483
  Spanning tree protocols
  Static routing table
- High speed SDSL transport over a single twisted pair telephone line.
- SDSL WAN multi-rates:144Kbps to 2320Kbps
- Flash upgradeable

Specifications

NETWORK INTERFACE

LAN Interface (4 port 10 Base-T HUB)

Connector	RJ-45:UTP(Unshielded Twisted Pair)
Standard	IEEE 802.3/Ethernet V.2
TP Polarity	Automatic

ATM Protocol

ATM cell	over SDSL, AAL & AAL5
IP over ATM	
PPP over ATM	

Bridge Characteristics

Address	10,000 address LAN table
Buffer	256 frames
Filtering	15,000 pps
Forwarding	15,000 pps
Learning & Aging	Automatic LAN table learning and aging

Routing Characteristics

8 PVCs for IPoA routing and
1 PVC for PPP oA routing.

Please check with us for availability of new firmware releases to support new functions or compatibilities.

LED Indicators

PWR	Power ON and option indication
ALM	SDSL Alarm, Data error
ACT	LAN data port activity
LINK	LAN data port link status
WAN	SDSL WAN port link status indicator

Power Requirement

12VDC	Via AC power adapter

Power Consumption

<7w

OAM & P

Local/ Remote	ASCII Data Terminal, Telnet

Control Port (Interface)

RS-232 Async (DCE 9600,8,N,1)

Environment

Temperature	0°C~55°C
Humidity	5%~95%

Dimensions (H x W x D)

35mm x 220mm x 155mm

Ordering Information

SDTU-01/ET10 SDTU-01 with ET10 4 port HUB (supports only bridge function)

SDTU-01/ET10R SDTU-01 with ET10R 4 port HUB (supports bridge and routing functions)