2-wire SHDSL Router with 4-port Switching HUB
SHDTU03-ET10R/ ET10RS
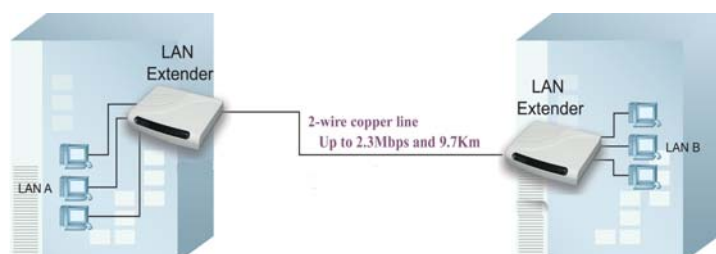## SHDTU03F-ET10R/ ET10RS (with Firewell Feature)

The SHDTU03 is a G.SHDSL (Single-Paired High Speed Digital Subscriber Loop) 2-wire router which complies with G.991.2 standards and with optional feature of a built-in four port 10Base-T /100Base-TX auto-negotiation and auto-MDIX switching HUB to meet enterprise and SOHO needs. The SHDTU03 family provides business-class, multi-range 64Kbps to 2.304Mbps payload rates over exiting single pair copper wire. The SHDTU03 SHDSL router is designed not only to optimize the service bit rate from central office to customer premises but also integrates high-end Bridging/ Routing capabilities with advanced functions such as Multi-DMZ, virtual server mapping and VPN pass-through. The SHDSL router allows customers to leverage the latest in broadband technologies to meet their growing data communication needs. In bridge mode, the four ports 10Base-T /100Base-T auto-negotiation and auto-MDIX switching ports may be configured for IEEE802.1q VLAN or port based VLAN application.

Features

- Standard G.SHDSL (ITU G.991.2) support for improved reach/speed and greater interoperability
- Use existing copper loop infrastructures
- Can operate in back to back configurations
- Efficient single wire pair usage
- Up to 2.304Mbps symetrical service bit rate
- Adaptive rate installation maximizes data rate based on loop conditions
- Local management interface via web browser
- SHDSL Line performance monitoring
- Raw and time stamped statistics
- Bandwidth guarantee transmission equipment

Application

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Specifications

Routing
- Support TCP/ IP/ UDP/ ARP/ICMP/IGMP protocols
- IP routing with static routing and RIPv1 & RIPv2 (RFC1058/2453)
- IP multi-cast and IGMP proxy (RFC1113/2236)
- Network address translation and port address translation (NAT/PAT) (RFC1631)
- NAT/ ALG (Application Layer Gateway) for ICQ/Netmeeting/MSN/Yahoo Messenger
- DNS relay and caching (RFC1034/1035)
- DHCP server (RFC2131/2132)
- IP precedence (RFC 791) (for Firewall Router)

Bridging
- IEEE 802.1D transparent learning bridge
- Port-based VLAN (for ET10RS model)

Security
- DMZ host/ Multi-DMZ/ Multi-NAT functions
- Virtual server mapping (RFC1631)
- VPN server pass-through for PPTP/L2TP/IPSec tunneling
- Natural NAT firewall
- Advanced Stateful packet inspection (SPI) firewall (for Firewall Router)
- Application level gateway for URL and keyword blocking (for Firewall Router)
- User access control : deny certain access of PCs to Internet (for Firewall Router)

Indicators
- General: Power
- G.SHDSL: Link, Active
- Ethernet: 1, 2, 3, 4, Alarm

Physical/ Electrical
- Dimensions: 18.7 x 3.3 x 14.5cm (WxHxD)
- Power:100~240VAC (via power adapter)
- Power consumption: 9 watts
- Temperature: 0~45°C

Memory
- 2MB Flash Memory, 8MB SDRAM

Management
- Easy-to-use Web based GUI for quick installation, configuration and management
- Menu-driven interface / command line interface (CLI) for local console and Telnet access management
- Password protected management and access control list for administration
- SNMP management with SNMPv1/ SNMPv2c (RFC1157/ 1901/1905) agent and MIBII (RFC1213/1493)
- Software upgrade via Web browser and TFTP server

ATM
- Up to 8 PVCs
- UBR/XBR/VBR-rt/VBR-nrt for QoS
- OAM F5 AIS/RDI and loopback
- AAL5

AAL5 Encapsulation
- VC multiplexing and SNAP/LLC
- Ethernet over ATM (RFC 2684/1483)
- PPP over ATM (RFC 2364)
- Classic IP over ATM (RFC 1577)

PPP
- PPPover Ethernet (RFC 2516)
- PPP over ATM (RFC 2364)
- User authentication with PAP/CHAP/MS-CHAP

G.SHDSL
- SHDSL: ITU-T G.991.2 (Annex A, Annex B)
- Encoding scheme: 16-TCPAM
- Data Rate: N x 64Kbps (N=0~36, 0 for adaptive)
- Impedance: 135 Ohms

Ethernet
- 4-ports switching hub (for ET10RS model)
- 10Base-T and 100Base-TX auto-negotiation
- Auto-MDIX

Hardware Interface
- WAN: RJ-11
- LAN: RJ-45 x 4 (for ET10RS model)
- Console port/ RS232: DB9F

Ordering Information

- SHDTU03-ET10R   Standalone 2-wire SHDSL router with single Ethernet port
- SHDTU03-ET10RS   Standalone 2-wire SHDSL router with 4-port switching HUB
- SHDTU03F-ET10R   Standalone 2-wire SHDSL router with firewall protection and single Ethernet port
- SHDTU03F-ET10RS   Standalone 2-wire SHDSL router with firewall protection and 4-port switching HUB

Transmission Units E1/T1 CSU/DSUs

Transmission Units xDSL

Fiber Media Converters

Network Testers

Interface Converters

Datacom Accessories