

xDSL Series

G.SHDSL ATM Family

G.SHDSL ATM Router / Bridge modem

SHDTU03F-ET10R

(2 wire 1port 10/100Base-TX Ethernet Router)



The SHDTU03F ATM modem family is a Single-Line High Speed Digital Subscriber Line 2-wire/ 4-wire bridge/router which complies with G.991.2 and G.994.1 standards. The SHDTU03F family provides business-class, multi-rate 192Kbps to 2.304/4.608Mbps payload rates over existing single pair or two pairs copper wire. The SHDTU03F 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. Easy configuration and monitoring can be accomplished by using any browser. The SHDTU03F can be configured in either central or client mode providing a point-to-point solution. The SHDSL router allows customers to leverage the latest in broadband technologies to meet their growing data communication needs.

Features

- Supports Ethernet over ATM over SHDSL
- Full ATM protocol stack implementation over G.SHDSL
- Adaptive rate installation maximizes data rate based on loop conditions
- Standard ITU G.991.2
- Supports point-to-point configurations
- Data rate 2 wire up to 2.3Mbps
- Local management interface via console port
- Intuitive Web based management
- SNMP management with SNMPv1/v2 and MIB II
- Efficient IP routing and transparent learning bridge to support broadband Internet services
- VPN pass-through for safeguarded connections
- Build-in advanced SPI firewall (Firewall routers)
- DMZ host/Multi-DMZ/Multi-NAT; multiple PCs on a LAN with only one IP address
- PPPoA and PPPoE support user authentication with PAP/CHAP/MSCHAP
- SHDSL Line performance monitoring
- Raw and time stamped statistics
- Supports firmware upgrade via web interface

Specifications

LEDs	• General: PWR • WAN: LNK, ACT • LAN: 1, 2, 3, 4 (ET10RS) LAN: Link, ACT (ET10R) • SHDSL: ALM
Power	DC 9V in
Power Consumption	9W
Dimensions (D x W x H)mm	145 x 187 x 33mm
Weight	400g
Temperature	0~50°C (Operating) ,0~70°C (Storage)
Humidity	10~90% non-condensing
Certification	CE, FCC, RoHS
MTBF	57,000 hours
Ports	LAN Interface : • 10Base-T /100 Base-TX auto-negotiation • Auto-MDIX Hardware Interface : • WAN: RJ-45 • LAN: RJ-45 • Console port: RS232 • RST: Reset button for factory default

Specifications

Ports	• WAN Interface : • SHDSL: ITU-T G.991.2(Annex A/B) • Encoding scheme: TC-PAM16, TC-PAM32 • Data Rate: N x 64Kbps (N=3~89) • Impedance: 135 ohms
ATM	• Up to 8 PVCs • OAM F4/F5 loopback test • AAL5
ATM QoS	• UBR (Unspecified Bit Rate) • CBR (Constant Bit Rate) • VBR-rt (Variable Bit Rate Real Time) • VBR-nrt (Variable Bit Rate Non-real Time)
AAL5 Encapsulation	• VC multiplexing and SNAP/LLC • Ethernet over ATM (RFC 2684/1483) • PPP over ATM (RFC 2364) • Classical IP over ATM (RFC 1577)
PPP	• PPP over Ethernet for fixed and dynamic IP (RFC 2516) • PPP over ATM for fixed and dynamic IP (RFC 2364) • User authentication with PAP/CHAP/MS-CHAP
Routing	• Support IP/TCP/UDP/ARP/ICMP/IGMP protocols • IP routing with static routing and RIPv1/RIPv2 (RFC1058/2453) • IP multicast and IGMP proxy (RFC1112/2236) • Network address translation (NAT/PAT) (RFC1631) • NAT ALGs for ICQ/Netmeeting/MSN/Yahoo Messenger • DNS relay and caching (RFC1034/1035) • DHCP server, client and relay (RFC2131/2132)
Bridging	• IEEE 802.1D Transparent Bridging • IEEE 802.1q VLAN • Port-based VLAN
Security	• DMZ host/Multi-DMZ/Multi-NAT function • Virtual server mapping (RFC1631) • VPN pass-through for PPTP/L2TP/IPSec tunneling • Natural NAT firewall • Advanced stateful packet inspection (SPI) firewall • Denial of service protection • User access control; deny certain PCs access to internet services
Management	• Easy-to-use web-based GUI for quick setup, configuration and management • Menu-driven interface/Command-line interface (CLI) for local console and Telnet access • Password protected management and access control list for administration • SNMP management with SNMPv1/SNMPv2c (RFC1157/1901/1905) agent and MIB II (RFC1213/1493) • Software upgrade via web-browser/TFTP server