

SHDTU03bF-ET10R SHDTU03bF-ET10RS SHDTU03bAF-ET10RS

2 / 4 - Wire G.SHDSL.bis EFM ATM
Ethernet Bridge / Router



The SHDTU03bF-ET10RS is a G.SHDSL bis Bridge/Router in 2-wire or 4-wire which complies with G.991.2 (2004) standards and has an optional built-in four port 10Base-T /100Base-TX auto-negotiation and auto-MDIX switch. The SHDTU03bF family provides business-class, multi-range 192Kbps to 5.7Mbps (2-wire) or 384Kbps to 11.4Mbps (4-wire) payload rates over existing single or two pair copper wire. SHDTU03bF-ET10R is designed not only to optimize the service bit rate from central office to customer premises but also integrates high-end Bridging/ Routing EFM bonding capabilities with advanced functions such as Multi-DMZ, virtual server mapping and VPN pass-through. The G.SHDSL.bis router allows customers to leverage the latest in broadband technologies to meet their growing data communication needs. In bridge mode, the four switching ports may be configured for IEEE802.1Q VLAN or port based VLAN applications. The modem can be configured in either central or client mode providing a point-to-point solution.

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 (2004) supports improved reach, speed and interoperability compared to conventional G.SHDSL
- ◆ Supports point-to-point configurations
- ◆ Data rate 2 wire up to 5.7Mbps and 4 wire up to 11.4Mbps
- ◆ 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) (option)
- ◆ 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
- ◆ Raw and time stamped statistics
- ◆ Supports firmware upgrade via web interface
- ◆ Supports TR069 (Optional)
- ◆ EFM (Ethernet in the First Mile) bonding per IEEE 802.3-2005; 2/4-wire bonding for HDLC per G991.2

Specifications

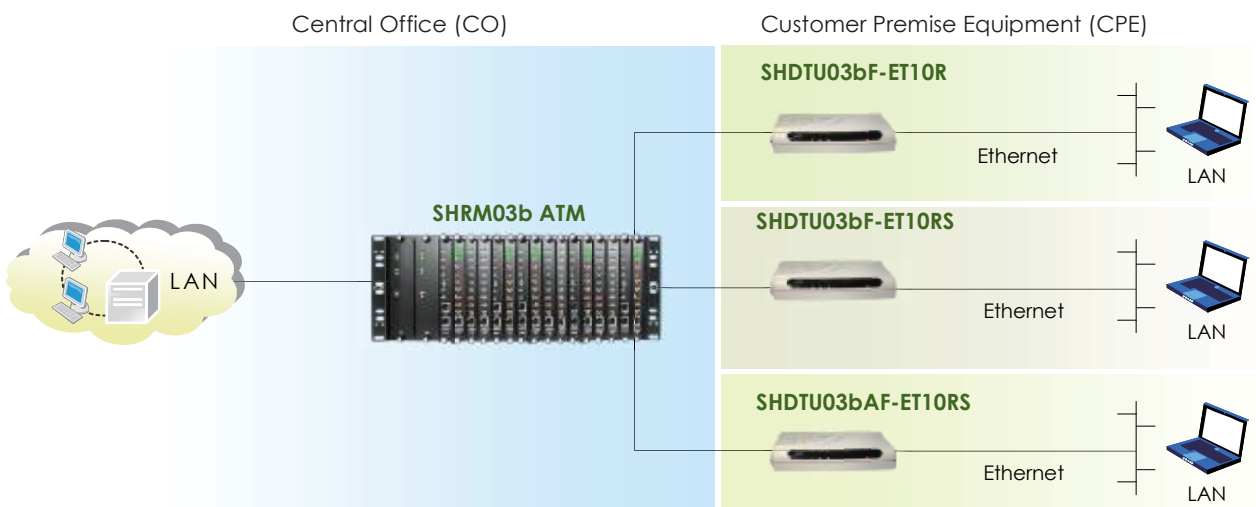
Ports	LAN Interface 10Base-T /100 Base-TX auto-negotiation Auto-MDIX Hardware WAN: RJ-45 Interface Console port: RS-232 WAN Interface SHDSL: ITU-T G.991.2 2004(Annex A/B/F/G) Encoding scheme: TC-PAM16, TC-PAM32 Data Rate: N x 64Kbps (N=3~89) Impedance: 135 ohm	Security	DMZ host/Multi-DMZ/Multi-NAT function 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
ATM	Up to 8 PVCs OAM F4/F5 loopback test , AAL5	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) , MIB II (RFC1213/1493) Software upgrade via web-browser/TFTP server
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)	Indications	General: PWR WAN: LNK, ACT LAN: 1, 2, 3, 4 (ET10RS) LAN: Link, ACT (ET10R) SHDSL: ALM
AAL5 Encapsulation	VC multiplexing and SNAP/LLC Ethernet over ATM (RFC 2684/1483) PPP over ATM (RFC 2364) Classical IP over ATM (RFC 1577)	Power Input	DC 9V-12V in
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	Power Consumption	< 9W
Routing	User authentication with PAP/CHAP/MS-CHAP 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)	Dimensions	145 x 187 x 33mm (D x W x H)
Bridging	IEEE 802.1D Transparent Bridging IEEE 802.1q VLAN Port-based VLAN	Weight	0.58kg
		Temperature	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)
		Humidity	10 ~ 90% non-condensing
		Certification	CE, FCC, RoHS
		MTBF	57,000 hrs

Application



TDM Based

2 Wires, 5.7Mbps 4 Wires, 11.4Mbps



	SHDTU03bF-ET10R	SHDTU03bF-ET10RS	SHDTU03bAF-ET10RS
WAN	2-wire	2-wire	4-wire
LAN	1	4	4
Auto-MDIX	Yes	Yes	Yes
Port-based VLAN	None	Yes	Yes
802.1q VLAN	1LAN / 1WAN	4LAN / 8WAN	4LAN / 8WAN
Firewall	Yes	Yes	Yes
Maximum data rate	5.7Mbps	5.7Mbps	11.4Mbps
Minimum data rate	192Kbps	192Kbps	384Kbps

Ordering Information

Model Name	Description
SHDTU03bF-ET10R	1-Port 10/100Base-T(X) ATM Router w/Firewall
SHDTU03bF-ET10RS	4-Port 10/100Base-T(X) ATM Router w/Firewall
SHDTU03bAF-ET10RS	4-Port 10/100Base-T(X) ATM Router w/Firewall

Note: SHDTU03bF-ET10R: 2-wire (5.7Mbps) G.SHDSL.bis ATM Ethernet Bridge / Router

SHDTU03bAF-ET10RS: 4-wire (11.4Mbps) G.SHDSL.bis ATM Ethernet Bridge / Router

SHRM03bF – ☐ ☐ ☐ ☐ ☐ Card Type

Example: SHRM03bF – ET10R