



SHDTU04bF-ET10RS SHDTU04bAF-ET10RS

G.SHDSL.bis ATM EFM Router

The G.SHDSL.bis ATM EFM Router is 2-wire or 4-wire Ethernet Bridge/Router that complies with G.991.2 standards and has an optional built-in four port 10Base-T /100Base-TX auto-negotiation and auto-MDIX switch. The G.SHDSL.bis ATM EFM Router provides multi-rate 2-wire / 5.7Mbps and 2.3Mbps or 4-wire 11.4Mbps and 4.6Mbps payload rates over existing single or two pair copper wire. The G.SHDSL.bis ATM EFM Router 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 virtual server mapping and VPN pass through. The G.SHDSL.bis ATM EFM 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.

Feature

- Supports Ethernet over ATM over SHDSL
- Full ATM protocol stack implementation over G.SHDSL.bis
- 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
- Local management interface via console port
- Intuitive Web based management
- SNMP management with SNMPv1/v2 and MIB II
- Build-in advanced SPI firewall (Firewall routers)
- Efficient IP routing and transparent learning bridge to support broadband Internet services
- VPN pass-through for safeguarded connections
- 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
- EFM (Ethernet in the First Mile) bonding per IEEE 802.3-2005;2/4-wire bonding for HDLC per G991.2

Specifications

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|-------------------------------|-----|--|--------------------------------|--|
| Interface | WAN | SHDSL.bis: ITU-T G.991.2 (2004) Annex A/B/F/G Support EFM Bonding and SHDSL M-Pair mode Line Code: TC-PAM 16/32/64/128 Data Rate: N x 64 Kbps (N=3~89) using TC-PAM 16/32 Max. 5.696Mbps (1-Pair) Max. 11.392Mbps (2-Pair) N x 64 Kbps (N=3~239) using TC-PAM 64/128 Max. 15.296 Mbps (1-Pair) Max. 30.592 Mbps (2-Pair) Impedance: 135 ohms | ATM Support | Multiple protocols over AAL5 (RFC1483) (Not support IPoA/PPPoA) Only 1 PVC |
| | LAN | RJ-45 x 4-Ports 10/100 Base-T Ethernet ports | EFM Support | EFM mode compliant to IEEE 802.3 PPP over Ethernet (RFC2516) Support of OAMPDU information and functionality (ITU-T Y.1731) OAMPDU Event Notification, Variable Request, Variable Response, Loopback Control VLAN base QOS (802.1P/Q), Priority Queue |
| Serial Console | | RS-232(Female) Connector | Internet Access Sharing | NAT (includes multi-to-multi NAT) / SUA, 8192 NAT sessions Port restricted cone NAT SIP ALG pass-through NAT server (Port forwarding) Multi-NAT Dynamic DNS DHCP server/client/relay |
| Factory Default Reset | | Push Button | Security | User Authentication (PAP, CHAP) with PPP (RFC 1334, RFC 1994) Microsoft CHAP Stateful packet inspection firewall Content filter Prevent Denial of service Access control of service Real-time attack alert and log |
| LED | | Power: (Green) WAN: LINK/ACT (Green), one LED per pair LAN (Port 1 ~ Port 4): LINK/ACT (Green:100M, Orange:10M) ALARM: (Red) | Network Management | Web-based Configuration, Command-line interface Password-protected Telnet support SNMP MIB I /MIB II support TFTP & FTP firmware upgrade and configuration backup Dying Gasp |
| G.SHDSL | | Support G.991.2 / G994.1 standards TC-PAM line modulation Configurable as either server or client mode OAM IEEE 802.3 chapter 57 compliant IEEE 802.3 2BASE-TL (aka 802.3ah) compliant Rate negotiating / Manually rate adaptation configuration Connection Loops: 1 pair (2 wires) Support IPoE Support PPPoE | | |
| Routing/Bridge Support | | IP (RFC 791) routing is supported TCP, UDP, ICMP, IGMP v1 and v2, ARP, RIP v1, RIP v2, OSPF, BGP-4 Transparent bridging (IEEE 802.1D) PPP BCP (RFC 3185) support IGMP snooping | | |

G.SHDSL.bis ATM EFM Router

Diagnostics Capabilities The router can perform self-diagnostic tests. These tests check the integrity of the following circuitry:
-FLASH memory
-SDSL circuitry
-RAM
-LAN port

Others
DNS Proxy
UNIX syslog
Each Ethernet port can be only tagged or only untagged
Application QoS
IPv6

Ordering Information

| Model Name | Description |
|-------------------|---|
| SHDTU04bF-ET10RS | 4-Port 10/100Base-TX ATM Bridge / Router w/Firewall (2-wire 5.7Mbps) |
| SHDTU04bAF-ET10RS | 4-Port 10/100Base-TX ATM Bridge / Router w/Firewall (4-wire 11.4Mbps) |