

G.SHDSL.bis Bridge Router



The Planet new SHDSL family member, GRT-501, is the G.SHDSL.bis router that complies with ITU-T G.991.2 standard and provides affordable, flexible, and efficient Internet access solution for SOHO and Small Medium Business environment. The GRT-501 supports business-class and multi-range from 192kbps to 5.7Mbps (2-wire) symmetric data rates and also can be connected as the LAN-to-LAN network connection in the distance up to 6.7km (4.2 miles) by using existing telephone copper wires.

The Planet GRT-501 is integrated with high-end Bridging/Routing capabilities, advanced functions of DMZ, Virtual Server, and VPN pass-through. Because the network environment grows rapidly, Virtual LAN has become more and more important feature in internetworking industry. The GRT-501 supports IEEE 802.1Q VLAN over ATM network.

With the built-in Simple Network Management Protocol (SNMP) and web-based management, the GRT-501 offers an easy-to-use platform-independent management and configuration facility. The GRT-501 also provides Command-Line Interface, it can be accessed via Telnet and the console port. The network administrators can manage the device by proper ways.

KEY FEATURE

- **High Speed Symmetric Data Transmission**
The GRT-501 supports the latest G.SHDSL.bis technology and provides the higher symmetric data rate up to 5.7 Mbps on 2 wires
- **CO and CPE side Support**
Provides the back-to-back connection
- **IEEE 802.1Q VLAN Support**
The GRT-501 supports the IEEE 802.1Q Tagged VLAN, and it offers significant benefit in terms with efficient usage of bandwidth, flexibility performance and security
- **Bridge and Router Mode**
The GRT-501 supports two connection modes. Currently, it comes pre-configured with routing mode. Please note that routing mode and bridging mode cannot be used simultaneously
- **Virtual Server**
This feature allows Internet users to access Internet servers on local LAN. The required setup is quick and easy
- **VPN Pass through Support**
PCs with VPN (Virtual Private Networking) software using PPTP, L2TP and IPSec are transparently supported - no configuration is required
- **DMZ Support**
The GRT-501 can translate public IP addresses to private IP address for allowing unrestricted 2-way communication with Servers or individual users on the Internet. This provides the most flexibility to run programs which could be incompatible in NAT environment
- **RIPv1/v2 Routing**
It supports RIPv1/v2 routing protocol for routing capability
- **Simple Network Management Protocol (SNMP)**
It is an easy way to remotely manage the router via SNMPv1/v2
- **Fully ATM protocol stack implementation over G.SHDSL.bis**
- **PPPoA and PPPoE support user authentication with PAP/CHAP/MS-CHAP**

SPECIFICATION
Product **G.SHDSL.bis Bridge Router**

Model	GRT-501
Hardware Specification	
Standard	Compliant with ITU-T G.991.2 Standard Annex A/B Compliant with G.SHDSL.bis Annex A/B/F/G TC-PAM Line Code Symmetric data transmission speed up to 5.7 Mbps on 2-wire Multi-range from 192kbps to 5.7Mbps
Protocol	RFC 1577 - Classical IP over ATM (RFC 1577) RFC 2364 - PPP over ATM RFC 1483/2684 - Ethernet over ATM RFC 2516 - PPP over Ethernet (fixed and dynamic IP) RFC 2364 - PPP over ATM (fixed and dynamic IP)
AAL and ATM Support	Supports up to 8PVCs ATM Forum UNI 3.1/4.0 PVC Supports OAM F4 / F5 AIS/RDI and loopback VC multiplexing and SNAP/LLC Integrated ATM QoS support (UBR,CBR,VBR-rt, and VBR-nrt)
LAN Port	1 x 10Base-T/100Base-TX (Auto-Negotiation, Auto MDI/MDI-X)
Console	1 x RS-232 (DB9)
Button	1 x Reset Button
LED Indicators	PWR, WAN LNK/ACT, LAN 10M/100M, ALM
Software	
Protocol	IEEE 802.1D transparent learning bridge IEEE 802.1Q VLAN Supports IP/TCP/UDP/ARP/ICMP/IGMP protocols IP routing with static routing and RIPv1/RIPv2 IP multicast and IGMP proxy Network address translation (NAT/PAT) DMZ host/Multi-DMZ/Multi-NAT function Virtual Server (RFC1631) DNS relay and caching DHCP server, client and relay
Security	Built-in NAT Firewall PPP over PAP (RFC1334) PPP over CHAP (RFC1994) Password protection for system management
VPN	VPN (PPTP/L2TP/IPSec) pass-through
Management	Web-based configuration Command-line Interpreter(CLI) via Console Command-line Interpreter(CLI) via Telnet Upgrades Software via web-browser/FTTP server SNMPv1 and v2
Environment Specification	
Dimension (W x D x H)	145 x 188 x 33mm
Power	9V DC, 1A
Temperature / Humidity	Operating: 0~45 degree C, 0~ 90% (non-condensing) Storage: -10~70 degree C, 0~95% (non-condensing)
Emission	FCC, CE

APPLICATIONS

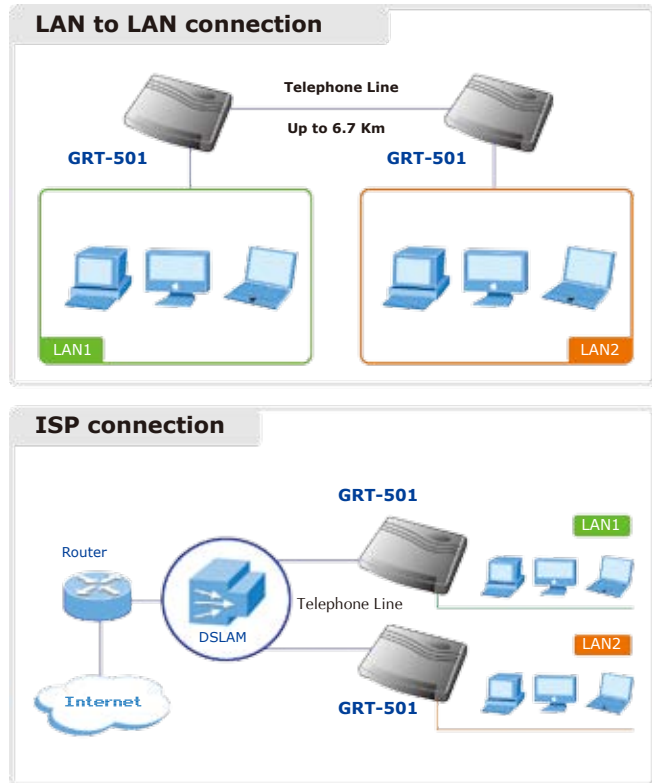
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Ethernet Distance extension

The GRT-501 is excellent for Ethernet to extend distance over existing telephone wires. With just one pair of AWG-26 copper wire, it is easy to connect two Ethernet networks far away (maximum 6.7km/4.2 miles).

ISP Solution

G.SHDSL.bis is the best solution to quickly provide cost-effective, high speed network service to SME and SOHO users which need high-speed symmetrical Internet connections. By utilizing the existing telephony infrastructure, network installation is simple and straightforward. With up to 5.7Mbps full duplex speed, IP telephony, website hosting and various broadband applications can be easily provided.



ORDERING INFORMATION

GRT-501	G.SHDSL.bis Bridge Router (1 x RJ-45, 1 x RJ-11)
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