

## G.SHDSL Bridge/Router



PLANET's G.SHDSL bridge/router, the GRT-101, provides an SHDSL (Symmetric High-speed Digital Subscriber Line) network interface ranging from 192Kbps to 2.304Mbps payload rates. It is designed both to optimize the service bit rate from the Central Office to Customer Premises Equipments, and to integrate high-end bridging and routing capabilities. The GRT-101 allows customers to leverage the latest broadband technologies to meet their growing data communication needs beyond the limitations of ADSL and cable modem technologies.

At 2.304Mbps, the GRT-101's bandwidth is greater than T1's 1.5Mbps. By using standard phone wire as a connection medium, its installation and equipment cost is typically less than T1 or Frame Relay. The GRT-101 also integrates bridging and routing support for LAN-to-LAN connection. Two GRT-101's can be connected together at a distance of up to 6.7km (4.2 miles) using phone wire, eliminating the need for leased line modems and expensive V.35 Cisco routers. Now two offices can be connected for inter-LAN communication using just one telephone pair and two GRT-101's.

### KEY FEATURE

- Easy configuration and management with password control for various application environments
- Efficient IP routing and transparent learning bridge to support broadband Internet services
- Fully ATM protocol stack implementation over SHDSL
- PPPoA and PPPoE support user authentication with PAP/CHAP/MS-CHAP
- SNMP management with SNMPv1/SNMPv2 agent and MIB II
- Software upgradable via the Internet

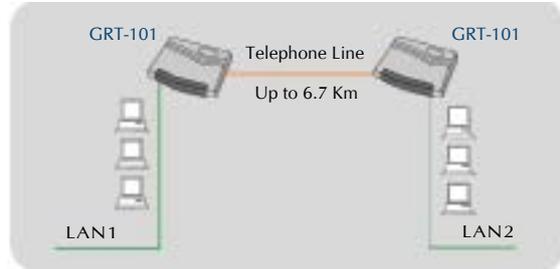
**SPECIFICATION**
**Product** G.SHDSL Bridge/Router

<b>Model</b>		GRT-101
<b>Hardware</b>		
<b>WAN</b>	Interface	RJ-11
	SHDSL	ITU-T G.991.2 (Annex A, Annex B)
	Encoding Scheme	16-TCPAM
	Data Rate	N x 64Kbps (N=3~36)
	Impedance	135ohms
<b>LAN</b>	Interface	RJ-45
	Ethernet	10Base-T, 100Base-TX
	Data Rate	10/100Mbps, Full/Half-Duplex
<b>Console port</b>		RS-232
<b>LED Indicator</b>	General	PWR
	WAN	LNK, ACT
	LAN	LNK/ACT, 100M
<b>Routing</b>		IP Routing Static Routing and RIPv1/RIPv2 IP masquerading NAT DHCP server DNS relay and caching
<b>Bridging</b>		IEEE 802.1D transparent learning bridge
<b>Configuration</b>		Local console (RS-232) , Telnet, Web (HTTP), Password control
<b>Network management</b>		SNMPv1/SNMPv2 agent MIB II
<b>ATM</b>		Up to 8 PVCs UBR/CBR traffic shaping AAL5 OAM F5 loopback ATM Forum UNI 4.0
<b>AAL5 Encapsulation</b>		VC multiplexing and SNAP/LLC Ethernet over ATM (RFC 2684/1483) PPP over ATM (RFC 2364) Classical IP over ATM (RFC 1577)
<b>PPP</b>		PPP over Ethernet (RFC 2516) PPP over ATM (RFC 2364) User authentication with PAP/CHAP/MS-CHAP
<b>Physical/Electrical</b>	Dimensions	187 x 148 x 33 mm (WxDxH)
	Power	15V DC
	Power consumption	6 watts/20.5 BTU
	Operating Temp.	0 ~ 45 Degree C
	Storage Temp.	-20 ~ 70 Degree C
	Operating Humidity	0 ~ 95 % (non-condensing)
	Storage Humidity	0 ~ 95 % (non-condensing)
<b>EMC/EMI</b>		FCC, CE

**APPLICATIONS**

*Ethernet Distance extension*

The GRT-101 is excellent for Ethernet distance extension over existing telephone wires. With just one pair of AWG-26 copper wire, you can easily connect two Ethernet networks far away (maximum 6.7 kilometers/4.2 miles) with a maximum 2.3Mbps (at maximum 3.3km/2.1 miles) full duplex transfer rate.



*ISP Solution*

G.SHDSL is the best solution to quickly provide cost-effective, high speed network service to Enterprise and SME users or SOHO users which need high-speed symmetrical Internet connections. By utilizing existing telephony infrastructure, the network installation is simple and straightforward. With up to 2.3Mbps full duplex speed IP telephony, website hosting and various broadband services can be easily provisioned.



**ORDERING INFORMATION**

GRT-101	G.SHDSL Bridge /Router (1x RJ-11, 1 x RJ-45)
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