

4-Wire G.SHDSL Bridge Router



Based on Digital Subscriber Line (DSL) technology, PLANET's new DSL product, the GRT-402 provides an affordable, flexible, and efficient Internet access solution for SOHO customers, while reducing deployment and operational costs from service providers. Using existing telephone lines, the GRT-402 concentrates on all traffic onto a single high-speed trunk for Internet activities or sharing a corporate intranet. Through the simple-yet-powerful management user interface of the GRT-402, network administrators can complete a managed network deployment simply in seconds.

With bandwidth of up to 4.608Mbps, the GRT-402 outperforms both T1's at 1.544 Mbps and E1's at 2.048 Mbps. By using a standard RJ-11 phone wire as a connection medium, the installation and equipment costs of the GRT are dramatically less than that of T1, E1, and Frame Relay. Using integrated bridging and routing support, two GRT-402s can be connected as a LAN-to-LAN network connection at the distance up to 6.7km (4.2 miles) via regular phone wire, eliminating the needs of expensive leased line CSU/DSU peripherals and V.35 Cisco routers. Currently two offices can be connected for inter-LAN communication simply using one telephone pair and two GRT-402'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
- NAT/PAT feature lets user both conserve valuable IP address space and reduce IP address management, meanwhile, also protects certain attack from outer network or internal workstations.
- 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
- Console and remote (Telnet or HTTP) administration allow user or service providers to locally or remotely diagnose network problems in detail

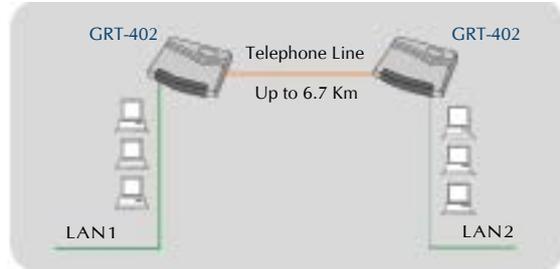
SPECIFICATION
Product 4-Wire G.SHDSL Bridge/Router

Model		GRT-402	
Hardware			
WAN	Interface	Interface	RJ-11
	SHDSL	SHDSL	ITU-T G.991.2 (Annex A, Annex B)
	Encoding Scheme	Encoding Scheme	16-TCPAM
	Data Rate	Data Rate	N x 128Kbps (N=0~36)
	Impedance	Impedance	135ohms
LAN	Interface	Interface	4 x RJ-45
	Ethernet	Ethernet	10Base-T, 100Base-TX
	Data Rate	Data Rate	10/100Mbps, Full/Half-Duplex
Console port		RS-232	
LED Indicator	General	General PWR	
	WAN	WAN LNK, ACT	
	LAN	LAN LNK/ACT, ALM	
Routing		IP Routing Static Routing and RIPv1/RIPv2 IP masquerading NAT DHCP server DNS relay and caching	
Bridging		IEEE 802.1D transparent learning bridge	
Configuration		Local console (RS-232) , Telnet, Web (HTTP), Password control	
Network management		SNMPv1/SNMPv2 agent MIB II	
ATM		Up to 8 PVCs UBR/CBR traffic shaping AAL5 OAM F5 loopback ATM Forum UNI 4.0	
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 (RFC 2516) PPP over ATM (RFC 2364) User authentication with PAP/CHAP/MS-CHAP	
Physical/Electrical	Dimensions	187 x 145 x 33 mm	
	Power	9V DC, 1.0A	
	Power consumption	9 watts/30.6 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)	
EMC/EMI		FCC, CE	

APPLICATIONS

Ethernet Distance extension

The GRT-402 is excellent for Ethernet distance extension over existing telephone wires. With just one pair of AWG-26 copper wires, you can easily connect two Ethernet networks far away (maximum 6.7 kilometers/4.2 miles) with a maximum 4.6Mbps (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 for Enterprise and SME users or SOHO users who need high-speed symmetrical Internet connections. By utilizing the existing telephony infrastructure, network installation is simple and straightforward. With up to 4.6Mbps full duplex speed IP telephony, website hosting and various broadband services can be easily provisioned.



ORDERING INFORMATION

GRT-402	4-Wire G.SHDSL Bridge /Router (1x RJ-11, 4 x RJ-45)
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