G.SHDSL Bridge/Router

Based on Digital Subscriber Line (DSL) technology, PLANET's new DSL product, the GRT-401 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-401 concentrates 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-401, networks administrators can complete a managed network deployment just in seconds.

With bandwidth of up to 2.304Mbps, the GRT-401 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 cost of the GRT is dramatically less than that of T1, E1 or Frame Relay.Using integrated bridging and routing support, two GRT-401s can be connected as a LAN-to-LAN network connection at a distance up to 6.7km (4.2 miles) using regular phone wire, eliminating the need for expensive leased line CSU/DSU peripherals and V.35 Cisco routers. Now two offices can be connected for inter-LAN communication using just one telephone pair and two GRT-401'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		G.SHDSL Bridge/Router

Model		GRT-401
Hardware		
WAN	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
LAN	Interface	4 x RJ-45
	Ethernet	10Base-T, 100Base-TX
	Data Rate	10/100Mbps, Full/Half-Duplex
Console port		RS-232
LED Indicator	General	PWR
	WAN	LNK, ACT
	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, 1000mA
	Power consumption	P8 watts/27.5 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)
EMC/EMI		FCC, CE

Data Sheet

APPLICATIONS

Ethernet Distance extension

The GRT-401 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 the existing telephony infrastructure, 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-401	G.SHDSL Bridge/Router (1x RJ-11, 4 x RJ-45)

Data Sheet

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02-06   C-GRT401-1