

GS-R250S

ADSL Router



GS-R250S

The GS-R250S integrates Ethernet routing and ADSL functionalities to provide broadband Internet access in an Ethernet LAN environment.

ADSL Standards

The GS-R250S supports the full range of DMT ADSL standards, including DMT full rate (G.dmt and T1.413 i2) and G.lite. The router also supports ITU G.994.1 (G.hs handshaking protocols) for auto-sensing and selection between different ADSL operation modes.

IP ROUTING

The router supports both static and dynamic IP routing with a full set of DHCP protocol implementation (server and client) to simplify the IP address management. The Network Address Translation (NAT) protocol enables Internet access sharing with only one IP address, providing a cost-effective way for homes and/or small offices to access the Internet with multiple PCs.

MANAGEMENT & SECURITY

The GS-R250S offers excellent network management tools and security measures as well. Its installation program employs an easy-to-use Graphics User Interface (GUI), making installing and configuring the router an enjoyable experience for average users.

The SNMP client agent facilitates the network administration by enabling remote downloading of configuration parameters from a server. On the security side, in addition to the protection that the NAT provides, the GS-R250S supports PPP session authentication via Password Authentication Protocol (PAP) and Challenge Handshake Authentication Protocol (CHAP). The authentication protocols prevents unauthorized request from accessing the PPP connection (e.g. remote SNMP application and SNMP server).

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GS-R250S

ADSL Router

Specifications

Multimode ADSL

- ANSI T1.413 issue 2; ITU G.992.1 (G.dmt); ITU G.992.2 (G.lite)
- ITU G.994.1 (G.hs) automatic mode sensing

Data Transfer Rate

- Full Rate: Up to 8Mbps downstream/800Kbps upstream
- G.lite: Up to 1.5Mbps downstream/512Kbps upstream

Line Reach

- Up to 18,000ft on a 26 AWG

ATM Attributes

- ATM Adaptation Layer 5 (AAL5)
- ATM Forum UNI 3.0, 3.1, 4.0
- ATM Forum ILMI v4.0
- Up to 8 VPI/VCI
- UBR, CBR, VBR Traffic Management
- OAM F4/F5 Loopback

Data Encapsulation

- LLC Encapsulation/VC Multiplexing
- RFC2364 PPP over ATM
- RFC1577 Classical IP over ATM
- RFC1483/2684 Multiprotocol over ATM
- RFC2516 PPP over Ethernet

Routing/Bridging

- TCP/IP, UDP, RIP1, RIP2, ICMP
- DHCP Client & Server
- BootP Server
- DNS Relay
- NAT/IP Masquerading
- IEEE 802.1d Transparent Bridging
- Spanning Tree Algorithm (STA)
- Up to 4096 Learning MAC addresses
- Address Resolution Protocol (ARP)

Network Management

- Web based GUI configuration tool
- Console Command Line access
 - Microsoft HyperTerminal
 - Linux Minicom
 - Macintosh Claris Works
- Telnet remote login
- TFTP firmware upgrade
- SNMP/MIB
- LAN Emulation Client

Network Security

- CHAP/PAP user authentication

Tunneling

- Local PPTP/L2TP to PPPoA VCC
- PPPoE client and bridging

Hardware Interfaces

- LAN: Ethernet 10BaseT
- WAN: RJ11 ADSL Line
- Console: RS-232 serial

LED Status Indicators

- ADSL
- Ethernet
- Data
- Power

Power Requirement

- Input: 100 ~ 240 VAC, 60MHz, 0.5A
- Output: +5 VDC, 1.0A

Agency Approval

- FCC part 15 class B, UL

Package Contents

- GS-R250S ADSL router
- RJ-11 ADSL cable
- RJ-45 Ethernet cable
- RJ-45 Ethernet cross connector
- RS-232 serial cable
- Power adapter
- Unit base stand
- Getting Started Guide
- Installation Guide

Specifications are subject to change without notice.

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