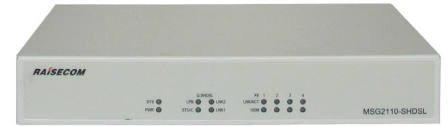


MSG2110-SHDSL Enterprise Gateway

With the symmetrical data transmission up to 15 Mbps over the 2-wire line, G.SHDSL.bis satisfies the needs of multiple user, who needs both bandwidth and permanent data connection. MSG2110 is a router with G.SHDSL uplinks. It cost-effectively extends multiple Ethernet service on the existing copper lines. It could act as the gateway of small and medium enterprise to connect to Internet with plenty of IP functions. Flexible configuration on QoS enables SME customers to define the different flows like VoIP, video and data with guaranteed or maximum bandwidth allocation. This device works on the demarcation point between carriers and customers and saves the cost of SME customers to buy additional small routers for their routing requirements.



MSG2110-SHDSL-2W/4W/8W

Highlights

- G.SHDSL Specification** Supports TC-PAM 64 (per pair – 11.4Mbps), TC-PAM128(per pair-15Mbps), 2 wire up to 15Mbps, 4 wire up to 30Mbps, 8 wire up to 60Mbps
- Service Assurance** Supports IEEE802.1q, 802.1p and TOS/Diff-serv
- Advanced Network** Supports routing, NAT, DHCP, DNS
- Easy Management** Management via Telnet, CLI, Web management

Typical Application

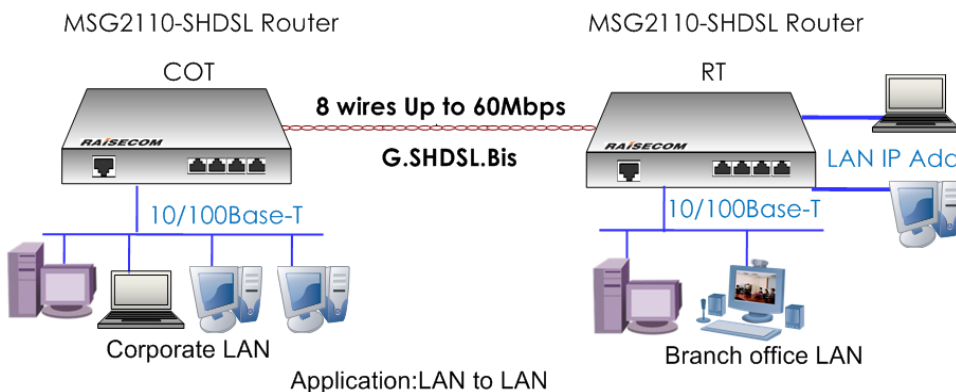


Figure.1 Point to Point Application

Features

Main features	Compact in high performance standalone unit Support G.SHDSL.bis Technology
G.SHDSL specification	TC-PAM 16 & TC-PAM 32 - ITU-T G.991.2.(2004) TC-PAM 64 (per pair - 11Mbps) support TC-PAM128(per pair-15Mbps) support ITU G.991.2 Annex A , Annex B , AnnexF and AnnexG EFM bonding 2 wires up to 15 Mbps /4 wires up to 30 Mbps /8 wires up to 60 Mbps
LAN features	IEEE 802.1Q (VLAN Tagging) - 4K for Security & efficient Bandwidth IEEE 802.1ad Support (Provider Bridges)
WAN features	Ethernet bridging EFM encapsulation Routing capability - Static & Dynamic routing (RIPV1/V2), OSPF PPPoE (RFC 2416)
Diagnostics	Ping & Traceroute - For Ethernet interface
Firewall features	State full Packet inspection & Denial of Service (DoS) protection Compact in high performance standalone unit DMZ port support to host servers Firewall policies between LAN, WAN & DMZ ports Network address translation / Port Address Translation (NAT / PAT) support Real time logs & Content filtering
Management features	Menu driven via RS-232 console port Web Browser(HTTP), Telnet RCMP (Remote Control & Management Protocol)GUI-based configuration LED indication for System & port Status Supports EOC for Configuring & supervising the remote unit Password Protection Firmware upgrade via FTP, TFTP applications & web interface
General features	Multicast/Broadcast limiting and advanced OAM functionality Port & application based rate Control DHCP server and client, DHCP relay



Mac count limiting and MAC Filtering
DHCP snooping and DNS server proxy
IGMP Snooping Support
IP Multicasting (IGMP)
Support for mac addresses- Total number
Mac based access list
Dynamic Bandwidth Utilization

QoS
Traffic priority:
IEEE 802.1P
ToS/Diff-Serv
Scheduling algorithm:
SP,WRR

Specifications

WAN interface	2/4/8 wires SHDSL 1*RJ45 connector TC-PAM 128 support AnnexA,B,F,G support Indicators:LNK,STU-C
LAN interface	4*10/100M auto-negotiation RJ45 connector Full/half duplex mode Auto MDI/MDI-X 100m distance Indicators: LNK, ACT;
Serial port configuration	9600bps/8bit/none parity/1 stop bit/none flow control
Dimension	25mm(H)x91mm(W)x172mm(D)
Weight	< 2kg
Power supply	AC & DC Power supply option via single power socket
Power consumption	≤ 15W (at max load)
Working environment	Temp: 0 ~ 45 Celsius RH:10 ~ 90% non-condensing
Storage environment	Temp: - 25 ~ 60 Celsius RH: 5 ~ 95% non-condensing

Compliances

Standards & protocols	IEEE802.3-2002 IEEE802.3ah-2004 IEEE802.3 10BaseT IEEE802.3u 100BaseTX IEEE802.1d IEEE802.3x full duplex on 10BaseT, 100BaseTX IEEE802.1q-2003 IEEE802.1p IEEE802.1w ITU G.991.2 RFC2416
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Ordering Information

MSG2110-SHDSL-2W-WP	supports G.SHDSL.bis technology, standalone G.SHDSL Router, provides 1*RJ45 2 wires G.SHDSL port uplink, 4*10/100Base-T LAN ports, AC:100-240V~/ Max;DC:48-72V~/ Max;
MSG2110-SHDSL-4W-WP	supports G.SHDSL.bis technology, standalone G.SHDSL Router, provides 1*RJ45 4 wires G.SHDSL port uplink, 4*10/100Base-T LAN ports, AC:100-240V~/ Max;DC:48-72V~/ Max;
MSG2110-SHDSL-8W-WP	supports G.SHDSL.bis technology, standalone G.SHDSL Router, provides 1*RJ45 8 wires G.SHDSL port uplink, 4*10/100Base-T LAN ports, AC:100-240V~/ Max;DC:48-72V~/ Max;