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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 and security 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 security and routing requirements. If the EPL and EVPL are required for much bigger organizations and branches, it could also deliver Layer2 carrier Ethernet service for point to point.

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

Highlights

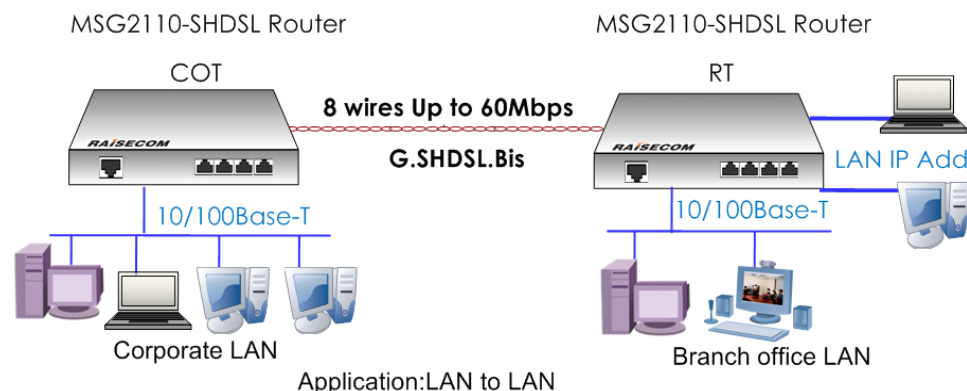|	
G.SHDSL Specification	Supports TC-PAM 64 (per pair – 11.4Mbps), TC-PAM128(per pair-15Mbps), 2 wire up to 15Mbps, 4 wire up to 30Mbps, 8 wire up to 60Mbps
Service Assurance	Supports IEEE802.1q, 802.1p and TOS/Diff-serv
Advanced Network	Supports routing, NAT, DHCP, DNS
Upgraded Security	Supports IPsec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

Typical Application

MSG2110-SHDSL Router   MSG2110-SHDSL Router

COT   RT

8 wires Up to 60Mbps
G.SHDSL.Bis

LAN IP Add

10/100Base-T   10/100Base-T

Corporate LAN   Branch office LAN

Application:LAN to LAN

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 & efficent 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
	VPN IPsec ,Data encryption(DES,3DES&AES)
	VPN Pass-Through(IPSec)
	Hardware Accelerated VPN Gateway
	Authentication(SHA-1,MD5)
	Manual Key, IKE, PKI(X.509)
	IPSec NAT Traversal
	Maximum of up to 100 IPSec VPN Tunnels
	Real time logs & Content filtering
Management features	Menu driven via RS-232 console port
	Web Browser(HTTP), SNMP V1,V2C & V3, Telnet

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	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
	VPN Passthrough
	Mac based access list
	Dynamic Bandwidth Utilization
QoS	Traffic priority:
	IEEE 802.1P
	ToS/Diff-Serv
	Scheduling algorithm:
	SP,WRR

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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
	RFC2011 SNMPv2
	RFC2012 SNMPv2
	RFC2013 SNMPv2

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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;