



## Realgain 6 - G.SHDSL.bis Bridge/Router Modem

### Overview

Realgain- 6 G.SHDSL.bis Router is cost-effective, dedicated managed device for extending mid-band Ethernet service based on multi-pair bonding DSL technology and uses TC-PAM 16 and TC-PAM 32 coding technology to support G.991.2 annex.A/B/F & G. Realgain- 6 G.SHDSL.bis Router's routing and bridging features enables small and medium enterprises to connect internet and intranet effortlessly.

G.SHDSL.bis technology extends transmissions farther than any other DSL technology, opening the door for service providers to deliver low cost, multi-service, broadband access to a wider subscriber base. The technology also offers interoperability flexibility to the users to use different makes of compatible G.SHDSL.bis routers at two ends.



### Key Features

- Provides High-speed data connectivity on Two/Single unconditioned twisted copper pairs/pair.
- Symmetrical data rates compliant to G.SHDSL.bis at 11.38 Mb/sec
- Four 10/100-Base-T Ports Ethernet switch.
- Support wi-fi 802.11b/g
- Supports EOC for configuring and supervising the remote unit.
- Supports Telnet, SNMP V1/V2 for extensive diagnostics, including loop-backs, G. SHDSL performance monitoring.
- Efficient IP routing and transparent learning bridge to support high speed Internet access.
- 32-bit wide DDR-1 support scalable from 32MB to 64 MB
- 256 MB Flash
- Complies with EMI/EMC CISPR 22A
- Power supply supports 160 to 240VAC and -36 to -60 VDC options.

### WAN protocols

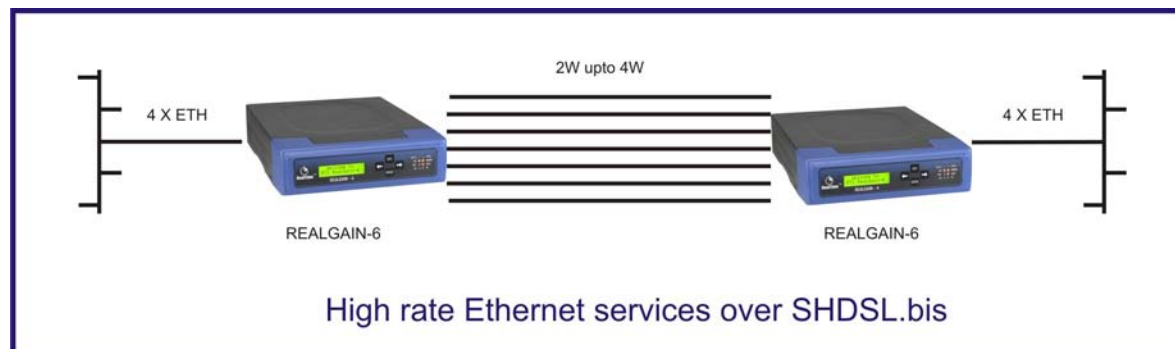
- Bridging complying to RFC 1483
- Ethernet over ATM, PPP over ATM, IP over ATM, PPPoE, PPP with PAP CHAP V2 support
- 8 virtual PVC
- Static Routing, RIP V1 & V2
- ATM services UBR & CBR
- NAT/PAT for security & efficient use of IP addresses.
- Firewall support

### LAN protocols

- Support DHCP Server, client & relaying capability
- Support DNS Server & relaying
- Auto Negotiation & Auto MDI-X
- Software upgrade through TFTP/GUI
- Port mapping & Virtual Server
- DMZ support.
- Support VLAN 802.1Q for security & efficient bandwidth management
- QoS support for handling multiple services efficiently
- Rate limiting for Broadcast, Multicast

### Applications

- Ethernet Leased lines
- LAN Bridging & Routing
- Internet access





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### Specifications

Model	Realgain-6
<b>DSL Interface</b>	
Standards	G.SHDSL.bis (G.991.2 annex.A/B/F & G), ETSI TS 101524
Line coding	TCPAM-16 or TCPAM-32
Line Rate	192 to 5696 kbps with steps of n x 64 kbps for each 2-wires Max.5.69Mb/sec for single pair &11.38 Mb/sec for 2-pairs ,Full-duplex
Connector	RJ-11
Impedance	135 Ohm
<b>LAN Interface</b>	
Interface	10/100BaseT,AutoMDI/MDIX, Auto Negotiation
Connectors	4 x RJ-45
Protocols	DHCP Server, client & relay, DNS Server & relay, Port mapping & Virtual Server, DMZ ,LAN 802.1Q, QoS ,Rate limiting for Broadcast, Multicast
<b>Management</b>	
Interfaces	Telnet, SNMP v1/v2, EOC for configuring and supervising the remote unit.
Upgrade	Software upgrade through TFTP/GUI
<b>Power Supply</b>	Wide-range AC/DC: 100-240 VAC, -36/-60C
<b>Indicators</b>	
Front Panel	PWR (green) –On: power supply is on TEST (yellow) –On: a test is active SYNC(green/red)– Green–DSL line is synchronized Red – DSL line is not synchronized Ethernet Ports (each port)LINK/ACT ACT (yellow) –Blinking: Ethernet is active LINK (green) –On: link integrity is good

### Ordering Information:RTS- Realgain 6; G.SHDSL.bis Router

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