



GoWide 4.6

G.shdsl Bridge/Router

KEY FEATURES

- 3 Products in 1: Bridge, Router, Gateway
- 2-wire or 4-wire G.shdsl Support
- G.shdsl Standard Compliance Delivering up to 4.6Mbps
- DHCP and DNS Support
- ATM Support with PPPoA/IPoA/RFC1483/PPPoE
- Firewall Protection
- Intrusion Detection
- Virtual Private Networks Support
- Web-based Management
- Local and Remote Administration and Firmware Upgrade

MAJOR APPLICATIONS

- High-Speed Internet/Intranet Access
- LAN-to-WAN Connectivity
- Campus Applications
- LAN-to-LAN Connectivity
- Video Conferencing
- Distance Learning
- Voice Over IP

Symmetricom's GoWide™ 4.6 is an integrated bridge, router, and gateway with 2-wire and 4-wire G.shdsl support for flexible DSL access.

Designed for businesses requiring high speed Internet or LAN-to-LAN access for mission critical applications, GoWide 4.6 uses next-generation G.shdsl to deliver scalable bandwidth up to 4.6 Mbps, enabling voice, video, and data convergence over the networks, and high speed symmetric DSL Access at above 2.3 Mbps beyond the coverage area serviced by traditional DSL or 2-wire G.shdsl.

Based on the worldwide G.shdsl (ITU-T G.991.2) standard, GoWide 4.6 provides businesses such advantages as unrivaled rate/reach, excellent tolerance to noise, and bridged taps. All of these advantages will enable Service Providers to provide increased end user satisfaction at low system cost.

GoWide 4.6 has been designed to interoperate with existing routers and firewalls, and to be installed on a company's existing network infrastructure, thus protecting an organization's initial capital outlay.

GoWide 4.6 supports DHCP, DNS for easy LAN setup, and has built-in firewall, intrusion detection, and VPN support to provide new network installation with secure data on an always-on DSL connection.

GoWide 4.6, with its integrated G.shdsl 4-wire technology, enables high-speed symmetric DSL access at above 2.3 Mbps beyond the coverage area serviced by traditional DSL or 2-wire G.shdsl.

GoWide 4.6 scales as network and bandwidth needs expand. Once installed, speeds up to 4.6 Mbps can be provisioned over the network without the need for additional expensive truck rolls. This also reduces capital costs and operating expenses through device consolidation.

Integrated with an easy-to-use Web-based management system, GoWide 4.6 reduces maintenance and deployment costs with its remote management capability, configuration store/restore facility, and firmware download support. GoWide 4.6 offers auto-sense 10/100BaseT for automatic discovery of Ethernet speed to eliminate the need to configure port speed.



FIG.1 GoWide 4.6 is an integrated bridge, router, and gateway device with single or dual G.shdsl circuit support for flexible DSL access at up to 4.6Mbps.

GoWide 4.6 design, manufacturing, and support are performed entirely by Symmetricom, a recognized leader in Network Synchronization and Timing. Symmetricom's manufacturing facilities are fully ISO 9001 certified and meet Telcordia GR-2981 CORE requirements. In addition, GoWide 4.6 is backed by Symmetricom Global Services (SGS) in the United States and the United Kingdom.

SGS is capable of delivering 24/7/365 technical support coverage in over 80 countries throughout North America, South America, Europe, Asia, and Africa.

CAMPUS AND MULTI-DWELLING

- University
- Business Parks
- Intra-building
- Intra-floor

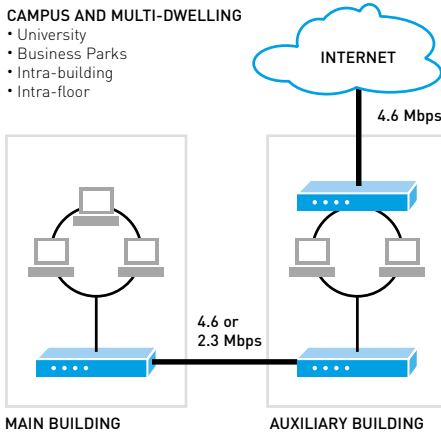


FIG.2 GoWide 4.6 LAN-to-LAN Application (Campus)

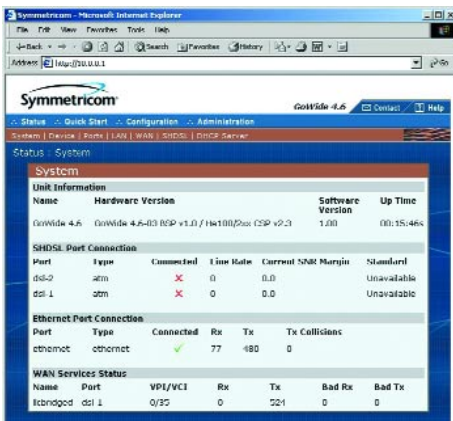


FIG.3 Web-based Management System

Feature Specifications

SHDSL FEATURES

- ITU-T G.shdsl (G.991.2)
- Configurable: 2-wire or 4-wire mode
- Signal format: TC-PAM
- Data rate:
64KBPS ~ 2.3 MBPS for 2-wire mode
128KBPS ~ 4.6 MBPS for 4-wire mode
- Connectors: RJ-45
- Impedance: 135Ω

ATM FEATURES

- RFC1483 encapsulation (IP, bridging, and encapsulated routing)
- PPP over ATM (LLC & VC multiplexing) (RFC2364)
- Classical IP (RFC1577)
- Supports 8 PVCs
- Traffic shaping
- OAM (I.610) support
- PPPoE relay
- PPPoE client

LAN FEATURES

- DHCP server
- DHCP client
- DHCP relay
- DNS relay
- Multiple subnet

ROUTING FEATURES

- Dynamic routing with RIP
- Static routing

MANAGEMENT FEATURES

- Plug and play installation
- Local and remote management
- Web-based configuration
- Console port for local management
- Telnet configuration
- Command line Interface with scripting capability
- Firmware upload/download via FTP/BOOTP and web-based management
- Alarm status and power indicators
- Event logging
- SNMP
- SYSLOG

SECURITY FEATURES

- Firewall
 - Stateful inspection
 - Packet filtering
 - NAT
 - NAPT

PHYSICAL INTERFACES

- One 10/100BaseT Ethernet port
- One G.shdsl port (RJ-11)
- WAN/LAN Status & Power and Ethernet LED indicators

PHYSICAL SPECIFICATIONS

- Height: 1.5 in.
- Width: 8 in.
- Depth: 6 in.
- Weight: 1.5 lbs.

POWER REQUIREMENTS

- External power supply:
230 VAC, 50 Hz
120 VAC, 60 Hz

OPERATING ENVIRONMENT

- Temperature: 0° C to 40 °C, (32° to 104 °F)
- Humidity: 5% to 90% RH non-condensing

MINIMUM SYSTEM REQUIREMENTS

- Any computer with an Ethernet 10Base T Interface
- Any operating system that supports an Ethernet connection with an IP stack

REGULATORY APPROVALS

- UL 1950
- TUV
- FCC Part 15 class A
- FCC Part 68
- CE Mark
- CS 03 Issue 8 Industry Canada
- IEC 60950, CSA 950/US

GOWIDE PRODUCT FAMILY

Product name	Part Number
GoWide 2.3	990-91021-06
GoWide 4.6	990-91022-03
GoWide 9.2	990-91023-01



SYMMETRICOM, INC.
2300 Orchard Parkway
San Jose, California
95131-1017
tel: 408.433.0910
fax: 408.428.7896
info@symmetricom.com
www.symmetricom.com