



GoWide 9.2

G.shdsl Bridge/Router

KEY FEATURES

- 3 Products in 1: Bridge, Router, Gateway
- G.shdsl Standard Delivering up to 9.2 Mbps
- DHCP and DNS Support
- ATM Support with PPPoA/IPoA/RFC1483/PPPoE
- Inverse Multiplexing Over ATM with 2 to 4 G.shdsl Ports
- Basic Firewall Protection
- 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 9.2 is an integrated bridge, router, and gateway device with four G.shdsl ports for DSL access, and a four-port 10/100BaseT Ethernet switching hub allowing up to four PCs or devices to be connected directly to GoWide 9.2 without the need for a separate hub.

Based on the worldwide G.shdsl (ITU-T G.991.2) standard, GoWide 9.2 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 9.2 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 9.2 contains a four-port 10/100BaseT configurable switching hub, and capable of operating as a bridge, router, or gateway device. GoWide 9.2 supports DHCP, DNS for easy LAN setup, and has built-in basic firewall and VPN support to provide new network installation with secure data on an always-on DSL connection.

GoWide 9.2 integrated Inverse Multiplexing over ATM technology enables high-speed symmetric DSL access at above 2.3 Mbps beyond the coverage area served by traditional DSL or two-wire and four-wire G.shdsl.

GoWide 9.2 scales with network and bandwidth needs. GoWide 9.2 can be provisioned to operate with up to four G.shdsl ports. With four G.shdsl lines, speeds up to 9.2 Mbps can be provisioned over the network without the need for additional expensive truck rolls. This reduces capital costs and operating expenses through device consolidation.

Integrated with an easy-to-use Web-based management system, GoWide 9.2 reduces maintenance and deployment costs with its remote management capability, configuration store/restore facility, and firmware download support.

GoWide 9.2 offers auto-sense 10/100BaseT for automatic discovery of Ethernet speed and auto MDI/MDIX capability, allowing automatic detection and line pairs switching. This eliminates the need to configure port speed as well as the need for crossover cables.

GoWide 9.2 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 9.2 is backed by Symmetricom's world-class Customer Technical Assistance Center (CTAC) in the United States and the United Kingdom. The CTAC is capable of delivering 24/7/365 technical support coverage in over 80 countries throughout North America, South America, Europe, Asia, and Africa.



FIG.1 GoWide 9.2 is an integrated bridge, router, and gateway device that uses four G.shdsl circuits for access speeds of up to 9.2 Mbps.

CAMPUS AND MULTI-DWELLING

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

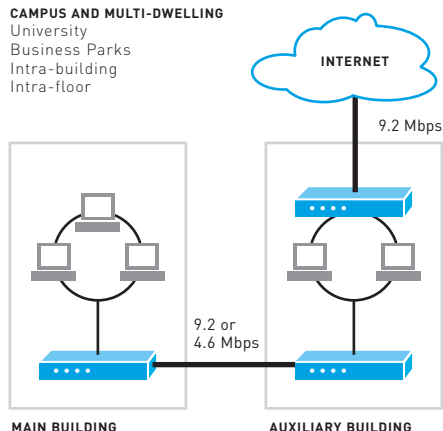


FIG.2 GoWide 9.2 LAN-to-LAN Application (Campus)



FIG.3 Web-based Management System

Feature Specifications

SHDSL FEATURES

- STANDARD ITU-T G.shdsl (G.991.2)
- SIGNAL FORMAT TC-PAM
- DATA RATE: 64 KBPS ~ 9.2 MBPS
- CONNECTOR: RJ-11
- IMPEDANCE: 135 OHMS

ATM FEATURES

- RFC1483 ENCAPSULATION (IP, BRIDGING, AND ENCAPSULATED ROUTING)
- PPP OVER ATM (LLC & VC MULTIPLEXING) (RFC2364)
- CLASSICAL IP (RFC1577)
- INVERSE MULTIPLEXING OVER ATM
- SUPPORTS 8 PVCs
- TRAFFIC SHAPING
- OAM (I.610) SUPPORT
- PPPoE RELAY
- PPPoE CLIENT

LAN FEATURES

- DHCP SERVER
- DHCP CLIENT
- DHCP RELAY
- DNS RELAY

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
- FIRMWARE UPLOAD/DOWNLOAD VIA TFTP/ BOOTP AND WEB-BASED MANAGEMENT
- ALARM STATUS AND POWER INDICATORS
- EVENT LOGGING

SECURITY FEATURES

- FIREWALL
 - PACKET FILTERING
 - NAT
 - NAPT
- VPN
 - PPTP SUPPORT
- PASSWORD PROTECTED CONFIGURATION ACCESS
- USER AUTHENTICATION (PAP/CHAP) WITH PPP

PHYSICAL INTERFACES

- FOUR-PORT AUTO-SENSING 10/100BASE T ETHERNET HUB (RJ-45) WITH AUTOMATIC MDI/MDIX FOR EACH PORT
- FOUR G.shdsl PORTS (RJ-11)
- WAN/LAN STATUS & POWER AND ETHERNET LED INDICATORS
- CONSOLE PORT

PHYSICAL SPECIFICATIONS

- HEIGHT: 1.75 IN.
- WIDTH: 12 IN.
- DEPTH: 8.4 IN.
- WEIGHT: 3 LBS

POWER REQUIREMENTS

- 100-240 VAC, 50/60 HZ

OPERATING ENVIRONMENT

- TEMPERATURE: 0° TO 40 °C, 32° TO 104 °F
- HUMIDITY: 5% TO 90% RH NON-CONDENSING

MINIMUM SYSTEM REQUIREMENTS

- ANY COMPUTER WITH AN ETHERNET 10BASE T OR 100BASE 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	990-91021-02
GOWIDE 4.6	990-91022-01
GOWIDE 9.2	990-91023-01



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