



HomePortal 3801HGV

Intelligent Gateway

Next Generation Triple Play VDSL Gateway

Deliver advanced data, voice, and video services to your subscribers with the HomePortal® 3801HGV intelligent gateway. Fortified with a variety of performance-enhancing features, including a dual-core processor for additional system processing power, DSL analog design optimized for better rate/reach, and a new HomePNA chipset doubling coax bandwidth and enabling the support of more in-home streams, the HomePortal 3801HGV gateway is built for the demanding VDSL applications of today and tomorrow.

Main Interfaces

- VDSL2
- Ethernet WAN
- HomePNA 3.1
- 4 Ethernet LAN Ports
- HyperG 802.11b/g Wireless Access Point
- 2 FXS (VoIP) Lines

Key Features and Benefits

- Intelligent Service Delivery Platform
- Carrier Quality TR-069 and TR-104 Network Platform
- Broadband Media-Ready
- Advanced Quality of Service for Managing Voice, IPTV, and Data Traffic
- HomePNA Interface for Video Distribution Throughout the Home
- Optimized DSL Analog Design for Better Rate/Reach
- Professional-Grade Firewall
- Enhanced VDSL Interoperability
- Low Total Cost of Ownership

High-Powered Wireless Technology

2Wire HyperG® high-powered wireless technology virtually eliminates wireless “cold spots” in the home. HomePortal gateways provide up to seven times the true power of traditional access points and increase wireless bandwidth by using a high power 400mW transmitter.* (Most wireless access points provide less than 100mW.) HyperG technology uses a standards-based, interoperable design, so even the performance of subscribers’ existing wireless 802.11b and 802.11g adapters will improve with a HyperG-enabled HomePortal gateway.

Remote Management

The HomePortal gateway’s TR-069 management interface enables extensive remote gateway management capabilities as well as full gateway firmware upgradeability. The HomePortal intelligent gateway is manageable through any TR-069-compliant auto-configuration server, such as industry-leading 2Wire CMS. A standards-based suite of carrier class business applications that centralizes the management, monitoring, and delivery of services to customer premises equipment, CMS enables seamless control over all facets of broadband service delivery through the HomePortal gateway.

In addition, CMS dramatically simplifies the process of upgrading CPE—update files are loaded and pushed quickly and easily to a few or thousands of CPE. The update process is invisible to the end-user, reducing support calls related to installation and troubleshooting.

Optional Enhanced Features

Go beyond the triple play by offering subscribers a suite of gateway-based services. The flexible HomePortal gateway platform can also support a variety of next generation applications designed to increase stickiness, revenue per user, and customer satisfaction.

Home Networking

Set up a high-speed home network quickly and easily; share files, printers, and a broadband connection with every computer and network-ready device in the home.

Parental Controls (Internet Access Controls and Content Screening)

Limit access to specific Websites, monitor browsing history and usage, and enforce time restrictions on common applications.

* Configurable power setting to comply with country-specific power requirements.

Firewall Monitor

Eliminate security issues before they have a chance to proliferate. Firewall Monitor watches for suspicious activity and notifies users about attacks.

Web Remote Access

Get fast, easy access to the HomePortal network remotely using just a standard Web browser, an Internet connection, and network password.

Voice Over IP

Two FXS lines via an RJ-14 jack provide G.711 or G.729 prioritized voice streams over SIP or MGCP, making it easy to add enhanced calling services while lowering infrastructure costs. 2Wire gateways also support wireless-wireline convergence.

Technical Specifications

Local Network Interfaces

- Ethernet 10/100 with auto-crossover (4-port RJ-45)
- Wireless 802.11b/g or high-powered HyperG® access point
- HomePNA 3.1 interface over coax, utilizing CopperGate 3210 chipset

VoIP Functionality

- Two (2) derived voice lines via embedded RJ-14 jack
- SIP user agent interoperability with Broadsoft Broadworks v11.1, Nortel MCS 5200, Alcatel-Lucent IMS, and Sylanro servers
- Audio codec: G.711, software upgradeable to support G.729a
- Software upgradeable to support back-to-back SIP user agent (proxy function)
- Voice over Wi-Fi support for UMA and IMS wireless mobile phones

HyperG Wireless Functionality

- 802.11g wireless access point, backwards compatible with 802.11b
- 10 power settings available through gateway user interface, up to 400mW, for both 802.11b and 802.11g, configurable via CMS
- WEP64, 128, WPA, 802.1x
- Multi-SSID

Broadband Network Interfaces

- VDSL-DMT per G.993.2 standard
- VDSL Broadband interface over twisted pair (RJ-11) or Coax 75Ohm F connector
- Broadband Ethernet for FTTP applications (RJ-45)
- Broadband auto detection feature (RJ-11, coax, or RJ-45)

Software Tools and Diagnostics

- Greenlight™ provisioning available via factory-preloaded configuration files
- Bulletin messaging system integrated with 2Wire CMS for subscriber messaging
- Network support tool to monitor and fix email and browser application settings

Configuration

- Simple Web-based user interface for easy configuration and diagnostics
- Quick summary page with shortcuts to most commonly used features

Network Protocol Support

- IPv4, IPv6 capable, TCP, UDP, ARP, ICMP
- DHCP client/server, DNS client/server, HTTP client and server
- Single IP and multi-IP support
- Multicast IGMP Proxy, IGMP Snooping
- 802.1x broadband network authentication

Diagnostics and Management

- Remote management and provisioning via SSL connection from 2Wire CMS (Broadband Forum TR-069)
- Supports TR-069 extensions TR-098, TR-104, and TR-111
- Integrated gateway-based diagnostics automatically intervene during error conditions, intercept subscriber Web requests, and provide self-guided resolutions
- DNS Ping, ICMP Ping, Traceroute
- Web-based remote gateway technician view and remote management
- Multi-color indicator lights monitor the connection and assist with troubleshooting

Security

- Integrated firewall includes stateful packet inspection (Layer 4) and local IP spoofing verification
- Supports stealth mode operation
- Unique signed security certificate manufactured into each gateway for TR-069 management authentication

NAT/PAT Support

- Standard NAT/PAT between LAN and WAN
- Automated NAT pass-through for LAN client-initiated VPN tunnels (IPSec, PPTP, L2TP), SIP, H.323, RTP
- Easy-to-configure NAT pass-through (pinholes) for common applications (games, servers, etc.)
- DMZplus for automatic WAN IP assignment to a local PC
- Supports most popular ALGs: HTTP, FTP, H.323, AIM,
- MSGAMES, DIABLO, IPSEC-IKE/ESP, IRC, MSN, PPTP, RTP, RTSP, and SIP

Software Upgrade

- Secure TR-069 upgrade procedure via 2Wire CMS

Standard Hardware Features

- TR-068-compliant industrial design and LED indicators
- Horizontal desktop placement, or vertical standing via provided stand
- External power supply

Physical Specifications

- 3.1" x 9.6" x 9.7" (7.8 cm x 24.3 cm x 24.5 cm); without stand: 1.6" x 8.7" x 8.9" (4.0 cm x 22.1 cm x 24.6 cm)
- 1.6 lbs (.70 kg)

Power Supply

- External PSU: 12V, 3A

Operating Environment

- Temperature: 0° to 40° C (32° to 104° F)
- Humidity: 8% to 95%, non-condensing
- Altitude: 197' – 7,000' MSL

Minimum Requirements

- Gateway manual configuration and Greenlight installations require a standard Web browser (HTTP VX or higher)
- All computers and devices to be connected to the gateway must have an Ethernet network interface or 802.11b/g wireless adapter (Windows 98, 2000, ME, XP, Vista, and Windows 7 only; Mac OS 8.6 to 9.x, and 10.2 or higher)



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