



Cable Modem Router with Wireless for Commercial and Residential



- Perfect solution for business class service
- Remote management via SNMP, Telnet, CLI, Web GUI
- Support NAT private networks with enabled/disabled DHCP
- Support public IP networks assignment ranging from a /30 to a /24 IP addresses with enabled/disabled DHCP
- Support both public and private network on the LAN ports simultaneously
- The text based configuration file makes deployment simple
- RIP v1 v2 with MD5 for authentication with the CMTS
- 802.11g high performance wireless with detachable antenna

Benefits

DOCSIS2.0 Certified

P974 series leverages the DOCSIS 2.0 technologies and delivers 3 times more up-stream capacity than DOCSIS 1.1/1.0 standards. P-974 series is interoperable with any DOCSIS network.

High Speed Performance

P-974 series is high performance cable modem router enables cable operators to offer different tiers of services. The built-in wireless access point for P974HW delivers higher data rates up to 54Mbps, easy-to-use, secured wireless LAN solution for residential and business applications.

Flexible Operation Modes

Supporting static IP network coupled with DHCP and Multi NAT, P974 series is ideal for business class customers to build up a public and private network simultaneously. The routing information uses a key-string encrypted via MD5 hash algorithm for authentication with the CMTS. The flexibility of operation modes makes P974 series the perfect one-box solution for multiple service deployments.

Ease of Remote Management

It supports telnet interface and TFTP download making it easy to deploy in the networks. TACACS+ server support enables access control for all interfaces. Access control list enhances the security to block the illegal login attempts. Cable operators can simplify the network management with SNMP v1 v2 v3 support. Customizable Web GUI provides 2-tier login for subscribers and cable operators.

Cable Modem Router

P-974 SERIES

CABLE



Cable Modem Router

P974 SERIES

Specifications

Downstream

- Center Frequency: 91 to 857 MHz
- Channel bandwidth: 6MHz
- Input impedance: 75ohms (Nominal)
- Modulation: 64QAM or 256QAM
- Maximum data rate:
 - 30 Mbps (64 QAM)
 - 43 Mbps (256 QAM)
- Symbol rates:
 - 5.057 Msym/s for 64 QAM
 - 5.361 Msym/s for 256 QAM
- Operating level: -15 to +15 dBmV

Upstream

- Frequency range: 5 to 42 MHz
- Bandwidth: 200 KHz /400 KHz /800 KHz /1.6MHz /3.2 MHz /6.4* MHz
- Output impedance: 75 ohms (Nominal)
- Modulation: 8*/16/32*/64*/128* QAM or QPSK
- Maximum data rate: 30 Mbps
- Symbol rates: 160, 320, 640, 1280, 2560 and 5120* ksym/s
- Operating level:
 - TDMA:
 - +8 to +54 dBmV (32 QAM, 64 QAM)
 - +8 to +55 dBmV (8 QAM, 16 QAM)
 - +8 to +58 dBmV (QPSK)
 - S-CDMA:
 - +8 to +53 dBmV (all modulations)

Management

- Remote management : Telnet, FTP, Web, SNMP
- Remote status monitoring over the cable network
- Remote management via SNMP; support SNMPv1 v2 v3
- The text based configuration file make deployment simplified
- The TACACS+ server support allows access control to all interfaces for MSO
- Remote firmware upgrade via TFTP
- Customizable Web GUI offers 2 tiers logins for operator and subscriber

Cable Standard

- DOCSIS®2.0 certified
- DOCSIS®1.1/1.0 compatible

Connectivity

- 4-port 10/100 Base-T Ethernet and USB connectivity
- OS Compatibility
 - For Ethernet connectivity: Windows 95/98se/2000/ME/XP, Macintosh, Linux and UNIX
 - For USB connectivity drivers: Window 98sec/2000/ME/XP

Security

- BPI, BPI+
- DOCSIS packet filter
- SPI, DoS firewall
- Access Control List
- Parental Control by URL, Domain Name, keywords, and scheduled filtering
- Email alerting based on filtering
- MAC and IP address Internet access control
- Event logging, e.g. gateway activities, hacking attempts, URL blocking, and etc
- Port forwarding, blocking, triggering
- TACACS+ authentication
- Radius authentication

IP Routing

- Dual bridge and router mode operation
- RIPv1 and RIPv2 with key-string authentication by MD5
- DHCP client/server
- Multi NAT (Network Address Translation) support
- Static IP network assignment
- Support public and private networks simultaneously
- Support static IP network assignment ranging from a /30 to a /24 IP addresses.
- Supports up to 253 users
- Support VPN pass-through for PPTP, L2TP, IPsec

Mechanical & Environment

- LEDs: PWR, SYS, LAN1, LAN2, LAN3, LAN4, USB, WLAN, DATA, CABLE
- Dimension: 197(W) x 143(D) x 31(H) mm

Operating Environment

- Operating temperature: 0°C ~ 40°C
- Operating humidity: 20% ~ 95% RH

Storage Environment

- Storage temperature: -30°C ~ 6C
- Storage humidity: 20% ~ 95% RH

Wireless (P974HW Model Only)

- 802.11g/11b at 54Mbps high wireless connectivity
- Single detachable antenna
- WPA, WPA2, Radius, 802.1x, WEP 64, 128, 256
- MAC filtering control support
- AES/TKIP/WEP enabled wireless data encryption
- Radio data rate and receive sensitivity:

Electrical Features

- Power consumption: 12VDC @ 1.5 Amps
- Power adaptor
 - North America: 100- 240 VAC, +/- 5%, 50/60 Hz
 - Europe: 100- 240 VAC, +/- 5%, 50/60 Hz

** Firmware upgradeable for future enhancement*

Product Description

- P974H** 4-ports Cable Modem Router
- P974HW** 4-ports Cable Modem Router with 802.11g Wireless

For more product information, visit us on the web: www.ZyXEL.com



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