

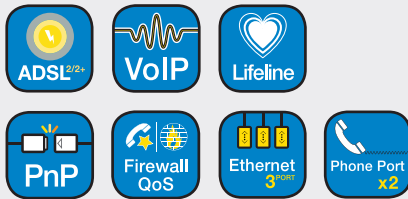
Multi-function 3-Port Integrated DSL and VoIP Router



OPEN824RL

VoIP ADSL 2/2+ IAD

- All in one ADSL 2/2+ VoIP Integrated Access Device (IAD)
- Data rates up to 24Mbps (ADSL 2+)
- 3 port Ethernet switch
- Lifeline support



BENEFITS

Speed

ADSL 2/2+ connectivity is built-in so there is no compromise on speed. OPEN Networks' ADSL 2/2+ routers set the benchmarks for connection speed and throughput.

VoIP

The two built-in phone jacks on these routers allow you to enjoy VoIP conversations while surfing the Internet.

You can assign phone numbers given by service providers to each phone port individually, or to both phone ports simultaneously.

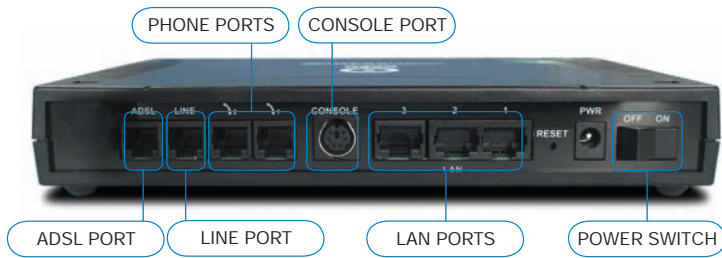
And with Lifeline, if the DSL link fails or the 824RL loses power, calls are automatically routed to a PSTN connection.

Security

The highest levels of security are implemented in the 824RL, including Stateful Packet Inspection, firewall and DMZ support for a full suite of security options.

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VoIP ADSL 2/2+ IAD



SPECIFICATIONS

ADSL Compliance

- Compliant with ADSL Standard
 - Full-rate ANSI T1.413 Issue 2
 - G.dmt (ITU G.992.1)
 - G.hs (ITU G.994.1)
 - ADSL over ISDN/U-R2
- Capable of ADSL2 Standard
 - G.dmt.bis (ITU G.992.3)
- Capable of ADSL2+ Standard
 - G.dmt.bisplus (ITU G.992.5)

Network Protocols and Features

- NAT Static routing and RIP-1/2
- Universal Plug and Play (UPnP) Compliant
- Dynamic Domain Name System (DDNS)
- Virtual Server and DMZ
- SNTP, DNS relay and IGMP proxy
- POP3 (email account checking)
- IGMP Snooping for video service

Firewall

- Built-in NAT firewall
- Stateful Packet Inspection (SPI)
- Prevent DoS attacks including IP Spoofing, Land Attack, Smurf Attack, Ping of Death, TCP SYN Flooding, etc.
- Packet Filtering - port, source IP address, destination IP address, MAC address
- URL Content Filtering - string or domain name detection in URL string.

VoIP

- Two RJ-11 FXS ports for connecting to regular telephones
- One RJ-11 FXO port for receiving/making calls from/to PSTN for lifeline support
- Compliant with SIP Standard (RFC3261)
- Supports G.711 A/u law, and G.729A Audio Codec standards

- Supports Telephony Features: call waiting, silence suppression, voice activity detection (VAD), comfort noise generation (CNG), G.168 line echo cancellation, caller ID (Bell 202, V23)
- Voice over data, QoS control to ensure higher voice quality
- Adaptive jitter buffer support
- Automatic fallback to lifeline POTS when the router powers down or VoIP service is not available

Quality of Service Control

- Support DiffServ approach
- Traffic prioritization and bandwidth management based on IP protocol, port number and address

ATM and PPP Protocols

- ATM Adaptation Layer Type 5 (AAL5)
- Multiple Protocol over AAL5 (RFC 2684, formerly RFC 1483)
- Bridged or routed Ethernet encapsulation
- VC and LLC based multiplexing
- PPP over Ethernet (PPPoE)
- PPP over ATM (RFC 2364)
- Classical IP over ATM (RFC 1577)
- MAC Encapsulated Routing (RFC 1483 MER)
- OAM F4/F5

Management

- Quick Installation Wizard and Auto-scan ADSL settings
- Web-based GUI for remote and local management
- Firmware upgradable and configuration data upload and download via Web-based GUI
- Firmware upgradable to ADSL2/ADSL2+ standards
- Embedded Telnet server for remote and local management
- Available Syslog monitoring
- SNMP v3, MIB-I and MIB-II support
- Support DHCP server/client/relay

Operating Environment

- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 20-95% (Non-condensing)

Hardware Specification

- Physical Interface
 - WAN: ADSL port
 - Telephone: 2-port FXS, 1-port FXO
 - LAN: 3-port 10/100M auto-crossover (MDI/MDI-X) Switch
 - Console: PS2
 - Factory default reset button
 - Power jack
 - Power switch
- Power Requirement
 - Input: 12V DC, 1.2A

Physical Specification

- Dimensions: 210(L) x 148(D) x 30(H) mm
- Weight: 450g

Home DSL Subscriber to VoIP Services



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Note: Specifications are subject to change without notice
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