



DSL-604+ Remote Router featuring a built-in ADSL interface, 22Mbps wireless LAN connectivity, 4 10/100Mbps Fast Ethernet switch ports, IP routing, transparent bridge, and NAT/DHCP Internet Gateway functions.

ADSL Router With Wireless LAN Connectivity & Switch Ports

The DSL-604+ Remote ADSL Router is a versatile all-in-one networking device that provides high-speed broadband Internet connection, 22Mbps wireless user access and dedicated LAN bandwidth server connection. Designed to link a branch office to a corporate network or to the Internet, this device incorporates a built-in broadband ADSL interface, IP packet routing capability, cost-saving Internet functions, wireless LAN access and Fast Ethernet server switch ports, all in one compact-sized box.

ADSL Broadband WAN Connection

The Router connects your office to a remote network or the Internet via a broadband ADSL line. An interface supporting G.dmt, G.lite and auto-handshake for different ADSL flavors is built into the Router. This allows your office to flexibly hook up DMT full rate DSL service (8Mbps), or make use of the economic G.lite rate. With the built-in DSL interface, all you need to do is plug the ADSL jack to the phone line wall socket to connect to the WAN.

IP Routing

The Router supports IP packet routing. Data can be efficiently transferred between two Windows or Unix remote networks with little bottleneck on the remote link. The Router also supports transparent bridge, allowing non-IP data to pass between two remote sites.

Cost-saving Internet Functions

Cost-saving Internet functions like NAT and DHCP server are built into the Router, permitting your entire office to share one single broadband line and one single ISP

account. The Router automatically assigns IP address for all office users, while masking their addresses on the Internet. This kind of firewall makes it more difficult for a hacker to target a computer on your network.

Wireless LAN Access

With a built-in IEEE 802.11b wireless LAN interface, the Router connects all wireless users together while providing them with the broadband WAN and Internet access. Wireless LAN speeds are up to 22Mbps, with backward compatibility with earlier 2Mbps IEEE 802.11 wireless networks. Seamless roaming from cell to cell and across Access Points, as well as WEP security are supported.

4 Built-in Fast Ethernet Switch Ports

This Router comes with four built-in 10/100Mbps switch ports, providing instant connection to Fast Ethernet servers and workstations. All switch ports support auto-sensing of network speeds and full/half duplex. For server connection, flow control is also supported, allowing 200Mbps full duplex data transfer on the wired network with minimum data loss.

Key Features

- Remote Router with built-in ADSL interface and wireless LAN
- 4 10/100Mbps Fast Ethernet switch ports
- 8Mbps high-speed G.dmt and G.lite support
- Auto-handshake for different ADSL flavors
- Bridged Ethernet over ATM, PPP over ATM, PPP over Ethernet, IP over ATM
- Precise ATM traffic shaping
- IP packet routing and transparent bridge
- Routing protocol supports RIP-1, RIP-2, Static Routing
- Built-in NAT, DHCP server
- PAP/CHAP authentication, administrative passwords through Telnet
- 256-bit WEP/wireless LAN user authentication security
- Flow control support for Fast Ethernet
- Built-in MIBs for SNMP management
- Web-based configuration setup
- Configuration backup restore
- TFTP firmware upgradeable
- Web download
- DNS relay

DSL-604+

Technical Specifications

Remote Routers

WAN

Standards

- ANSI T1.413 issue 2 (full rate DMT over analog POTS)
- ITU G.992.1 (G.dmt)
- ITU G.992.2 (G.lite)
- ITU G.994.1 (G.hs)

Data Rates

- DMT full rate downstream: up to 8Mbps
- DMT full rate upstream: up to 640Kbps
- G.lite ADSL downstream: up to 1.5Mbps
- G.lite ADSL upstream: up to 512Kbps

ADSL Interface

- RJ-11 connector for phone line connection
- ADSL micro filter required

Security

- PAP, CHAP
- Simple firewall
- Administrative passwords through Telnet and SNMP

Protocols

- Bridged Ethernet over ATM (RFC 1483)
- Classical IP over ATM (RFC 1577)
- PPP over ATM protocol (RFC 2364)
- PPP over Ethernet (RFC 2516)

Signaling

- ATM signaling: UNI 3.0, 3.1, 4.0
- Precise ATM traffic shaping
- OAM F4/F5

Routing

IP Packet Routing

- DHCP/NAT
- IP filtering
- TCP/IP with RIP-1 and RIP-2, Static Routing
- ICMP (RFC 791)
- UDP (RFC 792)
- ARP (RFC 826)

Wireless LAN

Standards

- IEEE 802.11b wireless LAN
- DSSS (Direct Sequence Spread Spectrum)

Frequency Band

2.400 - 2.4835 GHz (subject to local regulations)

Operating Frequency

- North America: 2.412 - 2.462 GHz
- Europe ETSI: 2.412 - 2.472 GHz
- Spain: 2.457 - 2.462 GHz
- France: 2.457 - 2.472 GHz
- Japan TELECOM: 2.412 - 2.4835 GHz

Number of Channels

- USA and Canada: 11
- Europe: 13
- France: 4
- Japan: 14

Data Transfer Rates

22Mbps, 11Mbps, 5.5Mbps, 2Mbps, 1Mbps auto fall back

Modulation

22Mbps and 11Mbps PBCC; 11Mbps and 5.5Mbps CCK; 2Mbps DQPSK; 1Mbps DBPSK

Security

256-bit WEP encryption

Operating Range

- Open space: coverage up to 300 meters
- Indoor: coverage up to 100 meters

Receive Sensitivity Nominal Temperature Range

- 1Mbps: 10-5 BER @ -92 dBm minimum
- 5.5Mbps: 10-5 BER @ -87 dBm minimum
- 11Mbps: 10-5 BER @ -82 dBm minimum

Ethernet

Standards

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 10BASE-TX Fast Ethernet
- IEEE 802.3 NWay auto-negotiation

Flow Control

- IEEE 802.3x Flow Control (full duplex)
- Back Pressure (half duplex)

LAN Interface

- 4 10/100Mbps 10BASE-T/100BASE-TX switch ports
- Network speeds auto-sensing, full/half duplex support

Others

Transparent Bridging

- Dynamic auto-learning of MAC addresses
- IEEE 802.1d Spanning Tree supported

Internet Support

- Dynamic Host Configuration Protocol (DHCP) server, client
- Network Address Translation (NAT)

Management

Standard/MIB

- SNMP standard
- MIB-II (RFC 1213) for IP
- Web-based management

Administration

- Telnet support
- SNMP support

User Authentication

- PPP Authentication Protocol (RFC 1334)
- Challenge Handshake Authentication Protocol with PPP (RFC 1994)

Statistic Monitoring

Ethernet, ATM and ADSL statistics

Firmware Upgrade, Configuration Backup/Restore

TFTP supported

Physical & Environmental

LED Indicators

- Power (per device)
- Status (per device)
- ADSL: Link, Act
- Local Network: Link/ Act
- Local Network: 10/100
- WLAN

Power Input

Through external AC power adapter

Power Consumption

12 watts (max.)

Operating Temperature

5° ~ 40°C (41° ~ 104°F)

Storage Temperature

-20° ~ 70°C (-4° ~ 158°F)

Humidity

5% ~ 95% non-condensing

Dimensions

234 x 162 x 35mm

Weight

500 grams

Emissions (EMI)

- FCC Class B
- CE Class B

Safety

- CSA International



CSA950
UL 1950
IEC 950
EN 60950

Ordering Information

ADSL Router With Wireless LAN & Fast Ethernet Switch Ports

DSL-604+ 1 ADSL port, wireless LAN interface, 4 10/100Mbps switch ports, IP routing, transparent bridging

Please specify one of the following after the model number:

/US	For use in USA, Canada, EC countries, Singapore
/F	For use in Finland
/FR	For use in France
/DE	For use in Germany
/UK	For use in United Kingdom
/B	For use in Belgium
/H	For use in Holland
/S	For use in Sweden
/D	For use in Denmark
/I	For use in Italy
/R	For use in Austria
/AU	For use in Australia
/CN	For use in China

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RECYCLABLE

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