

Best Data Products, Inc.

ADSL2+ Four Port Ethernet Switch Router/802.11G Wireless Gateway



Model Number: [DSL642WLG](#)

General Descriptions

The **DSL642WLG** is an ideal product combining ADSL2+ broadband access with built-in four ports 10/100 Mbps switch and 802.11g Wireless Access Point for LAN connectivity. The Best Data **DSL642WLG** Full Rate ADSL2+ Router provides the full rate maximum 24Mbps download speed and maximum 1024Kbps upload speed with built in support for **Triple Play** service (Voice, Data and Video). The built-in DHCP server assigns IP addresses to all workstations on your LAN. The DSL642WLG is a stand alone device that can be simply configured through Web-based management. The DSL642WLG **Auto Configuration Wizard** makes installation as easy as 123 Complies with FCC part15 & part68 regulations and CE approval.

Features and Benefits

- Full rate operation with up to 24 Mbps downstream data rate and up to 1024 Kbps upstream enables High-speed access to ISP or corporate network
- Auto Configuration Wizard (Automatically detects Telco settings).
- 4-port switch with IEEE 802.3 and 802.3u over UTP (10/100Base-T & MDI/MDI-X, auto sensing) for easy installation and configuration
- Wireless 802.11g Access Point (AP) with 2dBi dipole antenna
- WEP, WPA-PSK support
- Triple Play support for ISP's providing Voice, Data and Video over a single connection
- Built-in DHCP server automatically assigns IP addresses to all workstations on your LAN & WLAN for easy LAN IP address management.
- Friendly Web GUI for easy configuration, management and status monitoring.
- Ongoing feature enhancements through Web management update new firmware and easy to backup or restore configuration files.

Applications

• High-speed Internet access sharing	• Remote workgroup networking
• Video-On-Demand	• E-Commerce
• Telecommuting	• Corporate LAN access (VPN)
• Distance learning	• Video conferencing
• Work-at-Home	• On-Line Gaming

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Data Connection

- **Downstream:** Up to 24 Mbps
- **Upstream:** Up to 1024 Kbps
- **Rate adaptive** in 32 Kbps steps
- **Connect distance:** Up to 18,000 feet on 26 AWG wire

ADSL Standards

ADSL:

- **ANSI T1.413 issue 2**
- **ITU-T**

- G.992.1** (G.dmt) Annex A
- G.992.2** (G.lite)
- G.992.3** Annex A ADSL2
- G.992.3** Annex A DELT
- G.992.3** Annex L READSL2
- G.992.5** Annex A ADSL2+
- G.994.1** (G.hs) rev.3

Payload Encapsulation:

- **RFC 1483/2684** (Bridge and Multiple Protocol over ATM)
- **RFC 1577/2225** (IP over ATM)
- **RFC 2364** (PPP over ATM, CHAP and PAP supported)
- **RFC 2516** (PPP over Ethernet) over ATM

ATM:

- ATM cell over AAL5
- ATM Traffic shaping supports CBR, UBR and VBR
- OAM F4 and F5 segment end-to-end loop-back
- Support 4 PVC (Multiple-PVC)
- VPI range (0-255) and VCI range (1-65535)
- Support auto-detection for VPI/VCI and multiplexing method (VC-based, LLC-based)

Wireless

Frequency:

2.412GHz ~ 2.4835GHz

Compliance:

IEEE 802.11g (Backward compliance with 802.11b)

Modulation:

- **802.11b:** Direct Sequence Spread Spectrum
- **802.11g:** Orthogonal frequency division multiplexing

Rates: (Mbps)

802.11b: 22, 11, 5.5, 2, 1

802.11g: 54, 48, 36, 24, 18, 12, 9, 6

Function:

Access point supported

Encryption:

WEP 64-bit, 128-bit, WPA-PSK

Access Control:

- Disable SSID broadcast
- Wireless MAC address list
- Trusted user

Networking

Bridging:

Bridging features conformance to IEEE 802.1D and supports spanning tree algorithm and protocol.

Routing:

- Static routing
- RIP version 1(RFC 1058) and version 2(RFC 1723)
- ARP (RFC 1293, supports only one single subnet)

Management and Monitoring:

- DHCP (RFC 2131, RFC 2132) client/server for LAN and client for WAN
- DNS Proxy and Dynamic DNS
- Password protection when access configuration manager
- Web-based Configuration
- Remote Management through WAN port
- SMTP
- NTP (Network Time Protocol)
- Reset button: reset to factory default by pressing button for 5 seconds.

Firewall:

- NAT, NAPT (IP Masquerading)
- Attack Alert (E-mail) and log
- Denial of Service (SPI)
- Access Control
- Port Forwarding
- Port Range Forwarding

- Schedule-based URL Content Filtering

VPN:

- IPsec supported
- Pass-through tunnels: PPTP, L2TP and IPsec

ALGs:

Applications: MSN Messenger, CuSeeMe, ICQ, Yahoo Message, DNS, FINGER, FTP, HTTP, HTTPS, NEWS, NNTP, PING, PPTP, IPsec, Real-Audio, RTSP, SMTP, SNMP, SQL-NET, SSH TELNET, TFTP, Xbox Live, PS2 Online (SOCOM)

Supported OS

Windows 95, 98, ME, 2000, 2003, NT4.0, XP, Mac OS, UNIX & Linux

Certification

FCC part 15 & 68, CE mark

Interface

LAN:

Ethernet - 10/100Base-T & MDI/MDIX auto sensing Ethernet port through RJ-45 connector

Wireless - 802.11g Access Point

- **WAN:** ADSL line through RJ-11 connector

Power consumption

6W max. through 12VDC 800mA power adaptor

Mechanical

- Size (app.): 153mm(length) x 102mm(width) x 35.5mm (height)
- Net weight (app.): 230 g

Environmental

Operating Temperature

0°C ~ 40°C ambient

Humidity

10 % ~ 95 %(non-condensing)

Storage Temperature

-20°C ~ 60°C

Humidity

5 % ~ 95 % (non-condensing)

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