



## 802.11b Outdoor Bridge/Router

### Long Range Wireless Backbone Connection

The D-Link AirPremier DWL-1750 offers an economical wireless outdoor solution. This 2.4GHz wireless bridge/router conforms to IEEE 802.11b standards and can operate as a point-to-point (PtP) or a point-to-multipoint (PtMP) bridge with static routing ability to link networks in different buildings. It is an ideal solution for broadband telecommunication providers and enterprises to create wireless backbone networks.

#### Designed for Outdoor Environments

The DWL-1750 is designed for harsh outdoor environments. With die-cast watertight housing and built-in lightning protector (surge arrester), the DWL-1750 is the most robust outdoor wireless bridge/router for enterprise networks on the Wireless LAN market. It includes cost-effective Power over Ethernet (PoE) and unique outdoor remote mounted design for easy installation. With a one-meter RF cable needed between the DWL-1750 and the external antenna, the DWL-1750 is a cost-effective pure outdoor solution for long distance communications. D-Link provides ANT24 series outdoor antenna for range extension. The DWL-1750 is great for use in severe environments such as manufacturing plants, industrial locations, military bases, airports, golf courses, and other outdoor wireless LAN applications.

#### Data Encryption and User Access Security

The device provides up to 128-bit WEP data encryption. IEEE 802.1x user authentication support working in conjunction with RADIUS servers and MAC address control are provided for user access security.

#### Built-in DHCP Server

The DWL-1750 has a built-in DHCP server. The DHCP Server will automatically assign an IP address to the computers on the LAN/private network. When you turn your computers on, they will automatically load the proper TCP/IP

settings provided by the DWL-1750. The DHCP server will automatically allocate an unused IP Address from the IP address pool to the requesting computer.

#### Router and Firewall

The DWL-1750 can operate as a NAT inbound virtual server and provides IP based access control. The DWL-1750 firewall feature filters out unrecognized packets to protect your LAN network so all computers networked with the DWL-1750 are invisible to the outside world. Denial of Service (DoS) protection is also included with the DWL-1750 to prevent the wireless network from being hacked.

#### Virtual Server Support

You can make some of the LAN computers accessible from the Internet by enabling Virtual Server. Remote users accessing Web and FTP services via the public IP address can be automatically redirected to local servers in the LAN (Local Area Network.)

#### Versatile Management Capability

The DWL-1750 can be easily configured and managed via a web-based user interface, telnet or the built-in RS-232 console port. SNMP support with built-in MIB-I and MIB-II makes the DWL-1750 great for enterprise wireless network management.

#### Features

- 802.11b DSSS 2.4GHz standard bridge/router
- Up to 11Mbps data transfer rate
- Rugged all-weather outdoor housing
- Long range outdoor wireless connection \*
- Built-in Power Over Ethernet
- Point to Point and Point to Multi-Point bridging modes
- Data security with standard-based WEP encryption
- User access security includes 802.1x user authentication (used with RADIUS server) and MAC address control
- Built-in NAT router and firewall protection
- Built-in DHCP Server & Virtual Server support
- Web-based, Telnet configuration/SNMP management

\* Distance will vary according to antenna used.

# DWL-1750

## Technical Specifications

## 2.4GHz Wireless LAN

### Standard

IEEE 802.11b Direct Sequence Spread Spectrum (DSSS)

### Interfaces

- 10BASE-T Ethernet port for WAN to LAN connection
- UART for console port

### Frequency Range

2.4 - 2.497MHz ISM band

### Data Rate & Modulation

- 11Mbps (CCK)
- 5.5Mbps (CCK)
- 2Mbps (DQPSK)
- 1Mbps (DBPSK)

### Receiver Sensitivity

- < -84dBm @11Mbps
- < -85dBm @5.5Mbps
- < -90dBm @2Mbps
- < -93dBm @1Mbps

### Transmit Output Power (excluding external antenna)

17dBm (typical)

### RF Connector

Proprietary N-type (female) (Reverse Polarity)

### Protocols Supported

- TCP/IP
- NAT/NAPT
- Virtual Server (NAT inbound server)
- DHCP client/server
- PPPoE
- Static Routing
- Ethernet to Wireless Bridging

### Security

- 64/128-bit WEP (RC4)
- MAC address based access control
- 802.11b SSID hidden
- Denial Wireless 802.11b "ANY" station
- PPPoE authentication PAP/CHAP

### Firewall

- Built-in NAT firewall
- IP based access control
- Denial of Service (DoS) protection

### Device Management

- Web-based manager
- Console (RS-232) configuration
- SNMP MIB-I & MIB-II

### Firmware Upgrade

- TFTP (Transparent FTP)
- Xmodem & IK Xmodem

### Physical & Environmental

#### Lightning Protector Surge Current

20KA

#### Power Supply (PoE)

- Input: 100 ~ 240V AC 50 ~ 60Hz
- Output: -48V DC 0.7A

#### Operating Temperature

-20° ~ 70° C (-4° ~ 158° F)

#### Storage Temperature

-40° ~ 80° C (-40° ~ 176° F)

#### Humidity (non-condensing)

- 5% to 95% typical

#### Dimensions

243 (L) x 200 (W) x 77 (H) mm  
(9.57 x 7.87 x 3.03 inches)

### Weight (device only, without antenna)

6.4kg

### Package Total Weight

7.5 kg

### Regulation Certifications

- FCC Part15
- ETSI 300/328

### Package Contents

- DWL-1750 Unit
- Ethernet Inline Power Injector
- 1m Low Loss RF Cable
- 30m MIL-C-5015 style Ethernet Cable
- 2m Uplink RJ-45 Ethernet Cable
- 2m MIL-C-5015 style RS232 configuration cable
- User's Manual CD
- Mast Mounting Bracket with U-bolts
- Wall Mounting Bracket with screws



### Ordering Information

**DWL-1750** 802.11b Outdoor Bridge/Router

Please specify your order as follows:

<b>DWL-1750/ANA</b>	US standard power adapter, North America frequency
<b>DWL-1750/BEU</b>	UK standard power adapter, EU frequency
<b>DWL-1750/EEU</b>	EU standard power adapter, EU frequency
<b>DWL-1750/NEU</b>	Australia standard power adapter, EU frequency
<b>DWL-1750/ENA</b>	EU standard power adapter, North America frequency
<b>DWL-1750/CN</b>	China standard power adapter, China frequency

\* Antenna is additionally required for operation.

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<b>Europe</b>	TEL: 44-20-8731-5555	FAX: 44-20-8731-5511
<b>Germany</b>	TEL: 49-6196-77990	FAX: 49-6196-7799300
<b>France</b>	TEL: 33-1-30238688	FAX: 33-1-30238689
<b>Benelux</b>	TEL: 31-10-282-1445	FAX: 31-10-282-1331
<b>Italy</b>	TEL: 39-2-2900-0676	FAX: 39-2-2900-1723
<b>Iberia</b>	TEL: 34-93-4090770	FAX: 34-93-4910795
<b>Sweden</b>	TEL: 46-(0)8564-61900	FAX: 46-0-8564-61901
<b>Norway</b>	TEL: 47-22-309075	FAX: 47-22-309085
<b>Denmark</b>	TEL: 45-43-969040	FAX: 45-43-424347
<b>Finland</b>	TEL: 358-9-2707-5080	FAX: 358-9-2707-5081
<b>Singapore</b>	TEL: 65-6774-6233	FAX: 65-6774-6322
<b>Australia</b>	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
<b>Japan</b>	TEL: 81-3-5434-9678	FAX: 81-3-5434-9868
<b>China</b>	TEL: 86-10-8518-2533	FAX: 86-10-8518-2250
<b>India</b>	TEL: 91-022-652-6696	FAX: 91-022-652-8914
<b>Middle East (Dubai)</b>	TEL: 9714-8834234	FAX: 9714-8834394
<b>Turkey</b>	TEL: 90-212-335-2553	FAX: 90-212-335-2500
<b>Egypt</b>	TEL: 202-414-4295	FAX: 202-415-6704
<b>Israel</b>	TEL: 972-9-9715700	FAX: 972-9-9715601
<b>Chile</b>	TEL: 56-2-232-3185	FAX: 56-2-232-0923
<b>Brasil</b>	TEL: 55-11-55039320	FAX: 55-11-55039321
<b>South Africa</b>	TEL: 27(0)1266-52165	FAX: 27(0)1266-52186
<b>Russia</b>	TEL: 7-095-744-0099	FAX: 7-095-744-0099#350
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