D-Link®

*Air*Premier™

——— DWL-1750

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 also provides a variety of outdoor antennas to make the DWL-1750 operate up to 3.48miles (5.6Km) according to FCC regulation in US. 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.

Enhanced Security

The DWL-1750 has MAC address based access control and many other features for stronger security. With a built-in firewall, the DWL-1750 can work as a NAT inbound virtual server and provides IP based access control. Denial of Service (DoS) protection is also included with the DWL-1750 to prevent your wireless network from being hack.

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*
- *Up to 11Mbps data transfer rate*
- *Rugged outdoor environment design*
- *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*
- *Built-in firewall protection*
- *Web-based, Telnet configuration/SNMP management*

DWL-1750
Technical Specifications

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 Rage & Modulation-11Mbps (CCK)
- 5.5Mbps (CCK)
- 2Mbps (DQPSK)
- 1Mbps (DBPSK)

Receiver Sensitivity
- < -84dBm @11Mbps
- < -90dBm @2Mbps

Transmit Output Power (excluding external antenna)
- 20dBm (100mW typically) (EU frequency)
- 23dBm (200mW typically) (North America frequency)

RF Connector
Proprietary N-type (Reverse Polarity)

Operating Range (FCC)
Up to 3.48miles (5.6Km)

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 & 1K 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)

Package Total Weight
7.5 kg (16.53 lb)

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:

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

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U.S.A	TEL: 1-949-788-0805	FAX: 1-949-753-7033
Canada	TEL: 1-905-8295033	FAX: 1-905-8295095
Europe	TEL: 44-20-8731-5555	FAX: 44-20-8731-5511
Germany	TEL: 49-6196-77990	FAX: 49-6196-7799300
France	TEL: 33-1-30238688	FAX: 33-1-30238689
Benelux	TEL: 31-10-2045740	FAX: 31-10-2045880
Italy	TEL: 39-2-2900-0676	FAX: 39-2-2900-1723
Iberia	TEL: 34-93-4090770	FAX: 34-93-4910795
Sweden	TEL: 46-(0)8564-61900	FAX: 46-(0)8564-61901
Norway	TEL: 47-22-309075	FAX: 47-22-309085
Denmark	TEL: 45-43-969040	FAX: 45-43-424347
Finland	TEL: 358-9-2707-5080	FAX: 358-9-2707-5081
Singapore	TEL: 65-6774-6233	FAX: 65-6774-6322
Australia	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
Japan	TEL: 81-3-5434-9678	FAX: 81-3-5434-9868
China	TEL: 86-10-8518-2533	FAX: 86-10-8518-2250
India	TEL: 91-22-652-6696	FAX: 91-22-652-8914
Egypt	TEL: 202-62-44615	FAX: 202-62-44583
UAE	TEL: 971-4-3916480	FAX: 971-4-3908881
Turkey	TEL: 90-212-335-2525	FAX: 90-212-335-2500
Israel	TEL: 972-9-9715700	FAX: 972-9-971-5601
Chile	TEL: 56-2-232-3185	FAX: 56-2-232-0923
Brasil	TEL: 55-11-3094-2910	FAX: 55-11-3094-2921
South Africa	TEL: 27(0)1266-52165	FAX: 27(0)1266-52186
Russia	TEL: 7-095-737-3389	FAX: 7-095-737-3390
Taiwan	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
D-Link Corp.	TEL: 886-2-2916-1600	FAX: 886-2-2914-6299

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