

## 8-Port Wireless Switch

### Scalable Wireless LAN Core Controller

- 8 Ethernet Ports (6 With Power Over Ethernet)
- AAA Authentication Offloading
- Resilient Per VLAN Spanning Tree
- Load Sharing Redundant Links
- Reliable Wireless Infrastructure

#### FEATURES

##### Ideal SME Business Solution

- Tracks & Maintains User Authentication As Users Roam Throughout the Network
- Intelligently Designates Users to Virtual Private Groups based on User's Authenticated Identity
- Provides Scaled, Resilient, Integrated AAA Back-End Infrastructure
- Centrally Managed User Authentication Policies via AAA Backend
- Provides Key Management for Each Security Protocol
- Configures and Controls All Connected Access Points

##### Enables Resilient Network Operation

- Etherchannel Load-Shared, Redundant Links
- Spanning Tree And Per-VLAN Spanning Tree (PVST+)
- Resilient Network Attachment via Any DWX Port

##### Trusted Security Features

- 802.11i (WPA2)
- WPA-Enterprise
- WPA-Personal
- 802.1x User Authentication
- AES
- SSL & TLS
- TKIP
- WEP

##### Convenient Installation

- Supports 802.3af Power over Ethernet
- Locking Brackets Included

##### Easy Management

- Web Access Using HTTPS
- Telnet Server/Client
- SSL, XML Interface to Trapeze Networks RingMaster
- SSH v.2
- SNMP

**S**ecure, Manageable, and Scalable Wireless LAN Core Controller. The D-Link AirPremier™ MobileLAN™ DWS-1008 is a wireless LAN switch optimized for deployment in the Small-Medium Enterprise (SME) environment. The DWS-1008 is designed to allow easy user installation and operation yet support advanced wireless switch features such as secure mobility, policy enforcement, and AAA and 802.1x offload capabilities.

The D-Link MobileLAN™ solution is powered by Trapeze Networks and executes Trapeze Networks' Mobility System Software (MSS), which maintains the intelligence of the MobileLAN system. In addition to managing users' identities as they roam, the DWS-1008 configures and controls all aspects of the complementing DWL-8220APs.

*AAA Authentication Offloading Capability.* The MobileLAN™ DWS-1008 supports Administration, Authorization, and Authentication (AAA) policies to ensure maximum security. Rather than checking the identity of a connecting user from the switch's local database, user authentication policies can be sent back to an AAA server for complete verification. This offloading capability ensures that the WLAN will not overload when clients are simultaneously connecting to the network.

*User-Based Authentication Services.* This wireless switch delivers Identity-based Networking, which provides user-based services such as virtual private group membership, personal firewall filters, time-of-day/day-of-week access, encryption type, authentication, usage tracking, location tracking, and associated network statistics. Authorizations stay with users wherever they roam because all deployed DWS-1008s share stored information, ensuring secure access and connectivity to the right services.

*Easy Deployment.* The DWS-1008 includes eight 10/100 Mbps ports with integrated PoE to enable network connectivity to any connected DWL-8220AP. It is designed for distributed deployments in the wiring closet or small or medium offices. It can support up to six directly connected DWL-8220APs and up to six more DWL-8220APs connected indirectly.

*Maximum Performance With Load Balancing Capabilities.* The DWS-1008 performs Layer 2 forwarding and also comes with extensive Layer 3-4 and identity-tracking capabilities. It integrates seamlessly with wired infrastructures and offers redundant load-sharing links, 802.1q trunking, spanning tree and per-VLAN spanning tree (PVST+). It also supports IGMP snooping, which is vital to supporting IP multicast streams.

**AirPremier™**



## Technical Specifications

### Hardware

#### Interface

8 10/100BASE-TX Ethernet ports with no restrictions on port usage (6 ports provide integrated PoE)

#### Power over Ethernet

- Voltage output: 48 VDC
- Total wattage budget (all ports): 91.8 watts
- Wattage per port: 15.3 watts
- Cable requirements: PoE on 10/100BASE-TX RJ-45 ports using pins 4, 5 (node) and 7, 8 (return) on standard Category 5 UTP or STP

### Software

#### Standards

- IEEE Std 802.1X-2001 Port-Based Network Access Control
- IEEE Std 802.11i- Enhanced Security for 802.11 wireless networks based on AES
- IEEE Std 802.11h
- IEEE Std 802.11d

#### Security and AAA

- RFC 2246 Transport Layer Security (TLS)
- RFC 2284 EAP
- RFC 2315 PKCS #7 Cryptographic Message Syntax v.1.5
- RFC 2548 Microsoft RADIUS VSAs
- RFC 2716 PPP EAP-TLS Authentication Protocol
- RFC 2759 Microsoft PPP CHAP Extensions v.2
- RFC 2865 RADIUS Authentication
- RFC 2866 RADIUS Accounting

- RFC 2869 RADIUS Extensions
- RFC 2986 PKCS #10 Certification Request Syntax Specification v.1.7
- RFC 3580 IEEE 802.1X RADIUS Guidelines
- draft-ietf-tls-extensions Transport Layer Security (TLS) Extensions
- draft-josefsson-pppext-eap-tls-eap Protected EAP Protocol (PEAP)
- draft-kamath-pppext-peapv0-00.txt Microsoft's PEAP
- Version 0 (Implementation in Windows XP Sp1; Win2K SP3)
- draft-kamath-pppext-eap-mschapv2 Microsoft EAP CHAP extensions v.2

- IEEE 802.1D Spanning Tree
- IEEE 802.1Q VLAN tagging
- IEEE 802.3ad (static config)

#### Management

- RFC 854 Telnet (server/client)
- RFC 1157 SNMP v.1/v2c
- RFC 1213 MIB-II
- RFC 1866 HTML
- RFC 1907 SNMP v.2
- RFC 2068 HTTP
- RFC 3164 Syslog
- SSH v.2 Secure Shell v.2
- Trapeze private MIB

#### Cryptography

- WEP and TKIP: RC4 40-bit and 104-bit
- SSL and TLS: RC4 128-bit and RSA 1024-bit and 2048-bit
- CCMP: AES 128-bit (FIPS-197)

#### General

- RFC 1122 Host requirements
- RFC 1393 Traceroute
- RFC 1519 CIDR
- RFC 1591 DNS (client)
- RFC 1769 SNTP
- RFC 768 UDP
- RFC 783 TFTP
- RFC 791 IP
- RFC 792 ICMP
- RFC 793 TCP
- RFC 826 ARP

#### IP Multicast

- RFC 1112 IGMP v.1
- RFC 2236 IGMP v.2

#### Quality of Service

- RFC 2472 DiffServ Precedence
- RFC 2597 DiffServ Assured Forwarding
- RFC 2598 DiffServ Expedited Forwarding

## Physical & Environmental

#### Input Power

90 to 132 VAC/180 to 264 VAC, 50/60 Hz

#### Maximum Amperage Draw

- At 115Vrms: 4Arms
- At 230Vrms: 2Arms

#### Dimensions

442 (W) x 208 (D) x 44 (H) mm (17.4 x 8.2 x 1.72 inches)

#### Weight

3 kg (5.2 lbs)

#### Operating Temperature

10° to 50°C (32° to 122°F)

#### Storage Temperature

-20° to 70°C (-4° to 158°F)

#### Humidity

10% to 95% non-condensing

#### Regulatory Safety

- UL 60950
- TUV/GS EN 60950
- CSA 22.2 NO. 60950

#### EMI/EMC

- FCC PART 15
- EN 55022
- EN 55024
- EN 60101-1-2 (1993)
- CISPR 22
- ICES PART 15
- VCCI



## D-Link Worldwide Offices

#### U.S.A.

TEL: 1-800-326-1688

FAX: 1-866-743-4905

#### Luxemburg

TEL: 32-(0)2-517-7111

FAX: 32-(0)2-517-6500

#### Canada

TEL: 1-905-8295033

FAX: 1-905-8295223

#### Poland

TEL: 48-(0)-22-583-92-75

FAX: 48-(0)-22-583-92-76

#### Europe (U. K.)

TEL: 44-20-8731-5555

FAX: 44-20-8731-5511

#### Hungary

TEL: 36-(0)-1-461-30-00

FAX: 36-(0)-1-461-30-09

#### Germany

TEL: 49-6196-77990

FAX: 49-6196-7799300

#### Singapore

TEL: 65-6774-6233

FAX: 65-6774-6322

#### France

TEL: 33-1-30238688

FAX: 33-1-30238689

#### Australia

TEL: 61-2-8899-1800

FAX: 61-2-8899-1868

#### Netherlands

TEL: 31-10-282-1445

FAX: 31-10-282-1331

#### India

TEL: 91-022-26526696

FAX: 91-022-26528914

#### Belgium

TEL: 32(0)2-517-7111

FAX: 32(0)2-517-6500

#### Middle East (Dubai)

TEL: 971-4-3916480

FAX: 971-4-3908881

#### Italy

TEL: 39-02-2900-0676

FAX: 39-02-2900-1723

#### Turkey

TEL: 90-212-289-56-59

FAX: 90-212-289-76-06

#### Sweden

TEL: 46-(0)8564-61900

FAX: 46-(0)8564-61901

#### Egypt

TEL: 202-414-4295

FAX: 202-415-6704

#### Denmark

TEL: 45-43-969040

FAX: 45-43-424347

#### Israel

TEL: 972-9-9715700

FAX: 972-9-9715601

#### Norway

TEL: 47-99-300-100

FAX: 47-22-309580

#### Latin America

TEL: 56-2-232-3185

FAX: 56-2-232-0923

#### Finland

TEL: 358-9-2707 5080

FAX: 358-9-2707-5081

#### Brazil

TEL: 55-11-218-59300

FAX: 55-11-218-59322

#### Spain

TEL: 34-93-4090770

FAX: 34-93-4910795

#### South Africa

TEL: 27-12-665-2165

FAX: 27-12-665-2186

#### Portugal

TEL: 351-21-8688493

FAX: 351-21-8688493

#### Russia

TEL: 7-095-744-0099

FAX: 7-095-744-0099 #350

#### Czech Republic

TEL: 420-(603)-276-589

FAX: 420-(603)-276-589

#### China

TEL: 86-10-58635800

FAX: 86-10-58635799

#### Switzerland

TEL: 41-(0)-1-832-11-00

FAX: 41(0)-1-832-11-01

#### Taiwan

TEL: 886-2-6600-0123

FAX: 886-2-6600-8168

#### Greece

TEL: 30-210-9914 512

FAX: 30-210-9916902

#### Headquarters

TEL: 886-2-6600-0123

FAX: 886-2-6600-9898