

Product Highlights

Reliable, Secure Network

Self-healing and self-optimising technology combined with 4+4 wireless controller redundancy and RF scanning ensures reliability and performance.

Easy Guest Management

Features such as account generation, ticket issuance, user monitoring and session extension simplifies guest wireless network management.

Scalable Network Architecture

To meet evolving network demands, access point management can be upgraded from 64 to 256 APs per controller.



DWC-2000

Wireless Controller

Features

Network Architecture

- Manage up to 64 wireless APs; upgradable to 256 APs¹ per controller
- Control up to 256 wireless APs; maximum 1024 APs¹ per cluster

Robust Network Security

- Wireless Intrusion Detection System (WIDS)
- Rogue AP Detection & Classification
- Captive Portal
- WEP, WPA Personal/ Enterprise, WPA2 Personal/ Enterprise
- 802.1x

Fault Tolerance

- Max. 4+4 Redundancy
- RF Self-healing

Guest Management

- Ticket generation
- Payment gateway
- Account monitoring and extension

The D-Link DWC-2000 Wireless Controller is a centralised Wireless LAN manager designed specifically for education, hospitality and medium-to-large enterprises. With the ability to manage up to 64 (upgradable to 256) wireless access points and up to a maximum of 1,024 wireless access points¹ in a controller cluster, the DWC-2000 is a cost-effective mobility solution suitable for medium to large scale deployments. Features such as auto-managed AP discovery and single-point management allow users to achieve enterprise-class networking without the burden of executing massive and complex configurations. The guest account generation function manages guest users' bandwidth and accessibility to network resources. The DWC-2000 blocks potential attacks from unauthorised users and appliances with its robust and comprehensive security detection system, which is crucial in wireless environments.

Simplified Deployment and Management

Using the Setup Wizard, the DWC-2000 can be configured for any network in minutes. Centralised management of remote access points via a simple interface provides the ability to automatically discover compatible D-Link Wireless Access Points, add them into the managed access point list, and set one-time configuration dispatch settings for them. The network administrator can use the controller clustering feature to easily log into one wireless controller and push essential configurations to others within the group.

The dashboard displays real-time monitoring of access points and associated client stations, allowing network resources to be efficiently managed. Furthermore, the graphical widgets on the dashboard can be customised to provide various clients and network statistics at a glance. Combined with system alarms and statistical reports on managed access points, the DWC-2000 is the one-stop platform that allows administrators to effectively optimise and manage their network environment.

Guest Control and Management

The DWC-2000 integrates guest management features that deliver a secure and easy solution for managing access to the Internet by temporary users in a private or public network. Each temporary account, or the issued wireless access ticket, is accompanied by either time-limited or volume-limited Internet access privileges. The Guest Management service allows batch generation of temporary accounts, and also provides account details to the guest via a printout. Furthermore, it can monitor or extend the usage on the specific account manually after account creation and activation. Guests can easily purchase the service online by connecting with payment gateways to an authorised credit card or electronic payments.

Robust and Optimised Network

The DWC-2000 offers self-organising, self-optimising and self-healing network capabilities to increase the stability of the entire wireless network. Maximum 4+4 wireless controller redundancy and AP provisioning automatically switch the AP management from the failed controller to the backup in emergency scenarios, giving your network the reliability it needs. Featuring regular radio scanning and performance analysis, the DWC-2000 can automatically tune radio channels and power. This reduces interference and keeps the wireless network optimised. To make up for a sudden RF signal vacuum created by a “dead” access point, the DWC-2000 increases the transmission output power of neighbouring access points to expand RF coverage for a reliable, high-performance network.

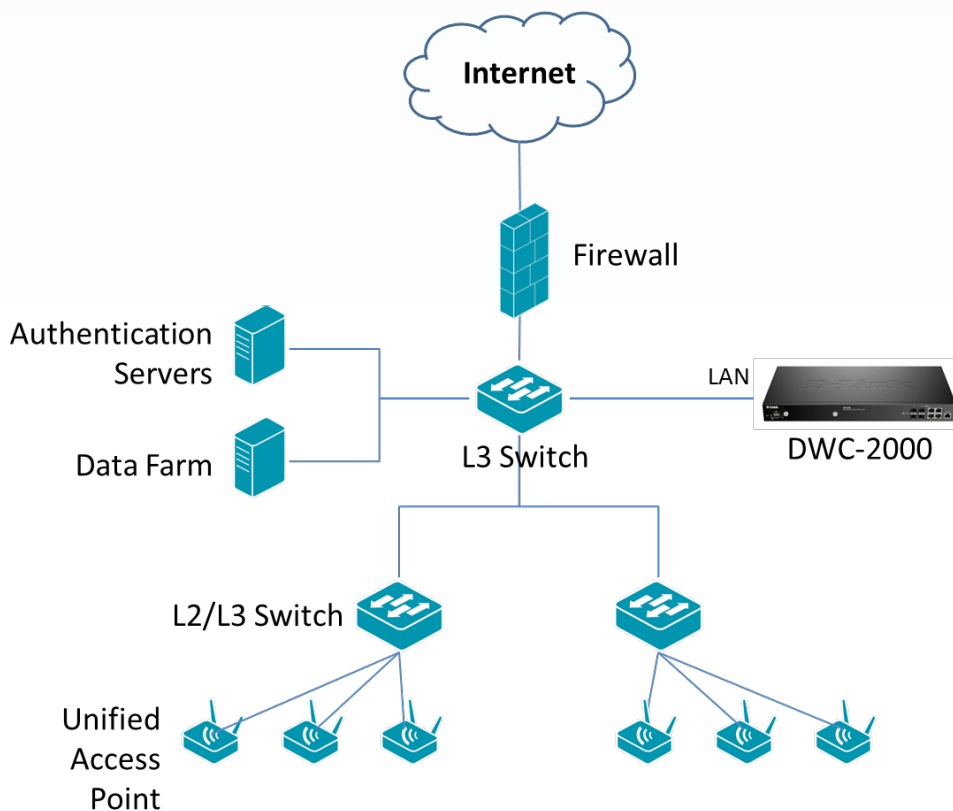
Comprehensive Security

The DWC-2000 provides a comprehensive wireless security solution for easy integration into any network. The Wireless Intrusion Detection System (WIDS) featured in the DWC-2000 detects rogue access points, rogue clients, and can anticipate wireless threats therefore preventing potential breaches and illegal access before any damage is done to the network. In addition to fundamental wireless security, the Captive Portal feature allows you to block clients from accessing the network until their identities are verified. The Captive Portal authentication servers cover local, RADIUS, LDAP, POP3 and Window Active Directory. This double-layer authentication and authorisation establish a robust security fence to avoid attacks from internal networks.

High Scalability, Availability, and Flexibility

To address today’s fast-changing corporate structures, the DWC-2000 Wireless Controller offers a flexible range of optional features: the administrator can purchase D-Link’s Business Wireless Plus license packs to upgrade the DWC-2000’s capabilities. D-Link offers a range of DWC-2000 managed AP license pack upgrades to increase the number of manageable access points, depending on need. By default, the DWC-2000 manages up to 64 access points, but this can be expanded to 256 access points per controller. With the DWC-2000, as the business grows, so does its wireless network.

Network Implementation within L2/L3 Network in Medium to Large Environments



Technical Specifications

| Interface | | |
|---|---|---|
| Ports | • 4 10/100/1000 RJ-45 and 4 100/1000 SFP Combo ports | |
| USB | • 2 USB 2.0 ports | |
| Console Port | • 1 RJ-45 | |
| Extension Slot | • 1 Hard disk driver slot | |
| Performance | | |
| Maximum Access Points per Unit | • 64/ 256 ¹ (default/ upgrade) | |
| Maximum Access Points per Cluster | • 256/ 1024 ¹ (default/ upgrade) | |
| Concurrent Captive Portal Authentication Users | • 2048 | |
| Access Point Management | | |
| Model of Managed APs | <ul style="list-style-type: none"> • DWL-8710AP • DWL-8610AP • DWL-7620AP • DWL-6700AP • DWL-6620APS | <ul style="list-style-type: none"> • DWL-6610APE • DWL-6610AP • DWL-6600AP • DWL-3610AP • DWL-2600AP |
| AP Discovery & Control | • Layer-2 | • Layer-3 |
| AP Monitoring | <ul style="list-style-type: none"> • Managed AP • Rogue AP | <ul style="list-style-type: none"> • Authentication Fail AP • Standalone AP |
| Client Monitoring | <ul style="list-style-type: none"> • Authenticated Client • Rogue Client | <ul style="list-style-type: none"> • Authentication Fail Client • Ad-hoc Client |
| Centralised RF/ Security Policy Management | • Supported | |
| Roaming | | |
| Fast Roaming | • Supported | |
| Intra-controller/ Inter-controller Roaming | • Supported | |
| Intra-subnet/ Inter-subnet Roaming | • Supported | |
| Security | | |
| Wireless Security | <ul style="list-style-type: none"> • WEP • Dynamic WEP | <ul style="list-style-type: none"> • WPA Personal/Enterprise • WPA2 Personal/Enterprise |
| Wireless Intrusion Detection & Prevention System (WIDS) | • Rogue and Valid AP Classification | • Rogue AP Mitigation |
| LAN Security | • 802.1x port-based access control and guest VLAN | |
| Authentication | • Captive Portal | • MAC Authentication |

| VLAN | |
|---|---|
| VLAN Group | • Up to 255 entries |
| 802.1q VLAN Tagging | • Supported |
| Subnet-based VLAN | • Supported |
| Port-based VLAN | • Supported |
| User Account Management | |
| Permanent Account Authentication Method | <ul style="list-style-type: none"> • Local Database • External RADIUS • External LDAP • External POP3 • External Windows Active Directory (wired only) |
| Temporary Account Authentication Method | • Local Database |
| Temporary Account Creation | • Single or batch account generation by system with customised active or usage expired time |
| Payment Gateway | <ul style="list-style-type: none"> • Authorize.net • Paypal • SecurePay • World Pay |
| System Management | |
| Web-based User Interface | • HTTP |
| Command Line | • Supported |
| SNMP | • v1, v2c, v3 |
| Physical/Environmental | |
| Power Supply | • 100-240 V AC, 50-60 Hz Internal power supply |
| Max. Power Consumption | • 26.95 W |
| Dimensions | • 440 x 310 x 44 mm (17.3 x 12.2 x 1.73 inches) |
| Operating Temperature | • 0 to 40 °C (32 to 104 °F) |
| Storage Temperature | • -20 to 70 °C (-4 to 158 °F) |
| Operating Humidity | • 5% to 95%, Non-condensing |
| Emission (EMI) | • FCC Class A, CE Class A, C-Tick, IC |
| Safety | • cUL, LVD (EN60950-1) |

| Compatible D-Link Wireless Access Points | |
|--|---|
| DWL-8710AP | Outdoor Wireless AC1200 Simultaneous Dual-Band Unified Access Point |
| DWL-8610AP | Wireless AC1750 Simultaneous Dual-Band Unified Access Point |
| DWL-7620AP | Wireless AC2200 Wave 2 Simultaneous Tri-Band Unified Access Point |
| DWL-6700AP | Outdoor Wireless N Simultaneous Dual-Band Unified Access Point |
| DWL-6620APS | Wireless AC1300 Wave 2 Simultaneous Dual-Band Unified Access Point with Smart Antenna |
| DWL-6610APE | Wireless AC1200 Simultaneous Dual-Band Unified Access Point with External Antennas |
| DWL-6610AP | Wireless AC1200 Simultaneous Dual-Band Unified Access Point |
| DWL-6600AP | Wireless N Simultaneous Dual-Band Unified Access Point |
| DWL-3610AP | Wireless Selectable Dual-Band Unified Access Point |
| DWL-2600AP | Wireless N Unified Access Point |
| Compatible D-Link Business Wireless Plus License | |
| DWC-2000-AP32-LIC | Enable management of 32 additional APs |
| DWC-2000-AP64-LIC | Enable management of 64 additional APs |
| DWC-2000-AP128-LIC | Enable management of 128 additional APs |

¹ The number of additional APs available for management depends on your license type.



For more information: www.dlink.com

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