

Product Highlights

Reliable, Secure Network

Self-healing and self-optimizing technology combined with 1+1 or N+1 wireless controller VRRP based redundancy and RF scanning ensures reliability and performance.

Easy Guest Management

Features such as account generation, ticket issuance, user monitoring, and session extension make for a convenient wireless solution.

Scalable Network Architecture

To meet evolving network demands, access point management can be upgraded from 64 to 4096 APs per controller.



DAC-2016

Wireless Access Controller

Features

Network Architecture

- Manage up to 64 wireless APs; upgradable to 2048 APs¹ per controller
- Control up to maximum 4096 APs¹ per cluster

Robust Network Security

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

Guest Management

- Ticket generation
- Account monitoring and extension

Compatible D-Link Wireless Access Points

- DWL-8610AP (802.11 ac)
- DWL-8600AP (802.11 a/b/g/n)
- DWL-6600AP (802.11 a/b/g/n)
- DWL-3600AP (802.11 b/g/n)
- DWL-2600AP (802.11 b/g/n)

The D-Link DAC-2016 Wireless Controller is a centralized Wireless LAN manager designed specifically for education, hospitality, and medium-to-large enterprises. With the ability to manage up to 64 (upgradable to 4096) wireless access points and up to a maximum of 4096 wireless access points in a controller cluster, the DAC-2016 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. With a robust and comprehensive security detection system, the DAC-2016 manages associated APs by blocking potential attacks from unauthorized users and appliances, which is particularly crucial in wireless environments.

Simplified Deployment and Management

Using the Setup Wizard, the DAC-2016 can be configured for any network in minutes. Centralized 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 to manage network resources efficiently. Furthermore, the graphical widgets on the dashboard can be customized to provide various client and network statistics at a glance. Combined with system alarms and statistical reports on managed access points, the DAC-2016 is the one-stop platform that allows administrators to effectively optimize and manage their network environment.

Guest Control and Management

The DAC-2016 integrates Hotspot 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 Hotspot account, or the issued ticket, is accompanied by time-limited or volume-limited Internet access privileges. The Hotspot Guest Management service allows batch generation of temporary accounts, and also provides account details to the guest via printout. Furthermore, it can monitor or extend the usage on the specific account manually after account creation and activation. By connecting with payment gateways to authorized credit card or electronic payments, guests can easily purchase the service online.

Robust and Optimized Network

The DAC-2016 offers self-organizing, self-optimizing, and self-healing network capabilities to increase the stability of the entire wireless network. Maximum N+1 wireless controller redundancy and AP provisioning automatically switches 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 DAC-2016 automatically tunes radio channels and power from time to time to avoid interference and keep the wireless network optimized. To make up for a sudden RF signal vacuum created by a "dead" access point, the DAC-2016 increases the transmission output power of neighboring access points to expand RF coverage for a reliable, high performance network.

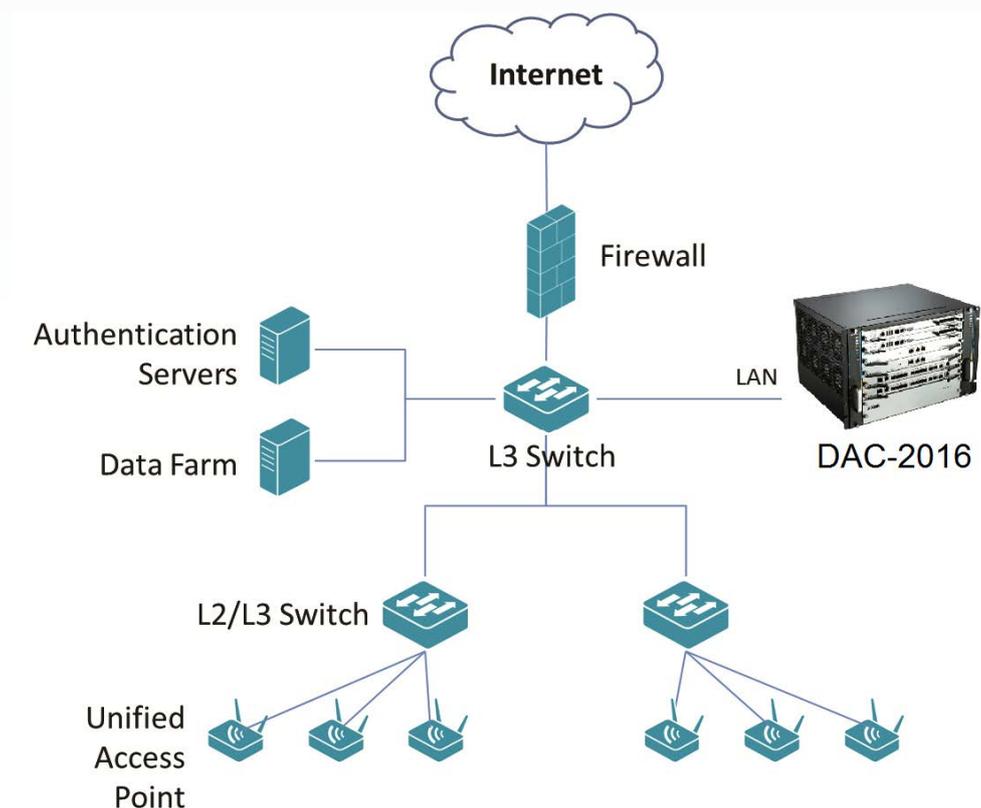
Comprehensive Security

The DAC-2016 provides a comprehensive wireless security solution for easy integration into any network. The Wireless Intrusion Detection System (WIDS) featured in the DAC-2016 detects rogue access points, rogue clients, and can anticipate wireless threats, 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 authorization 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 DAC-2016 Wireless Controller offers flexible optional features: the administrator can purchase D-Link's Business Wireless Plus license packs to upgrade the DAC-2016's capabilities. D-Link offers a range of DAC-2016 managed AP license pack upgrades to increase the number of manageable access points, depending on need. With the DAC-2016, as business grows, so does its wireless network. Advanced Telecommunications Computing Architecture built hardwares and TELCO level solutions provides.

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



Technical Specifications

Interface

Ports	• 2 10/100/1000 RJ-45 and 48 100/1000 SFP ports and 2 10G SFP+ ports	
USB	• 2 USB 2.0 ports	
Console Port	• RJ-45	
Extension Slot	• 2 Switch Blade Slots	• 4 Control / Service Blade Slots

Performance

Maximum Access Points per Unit	• 64/ 2048 (default/ upgrade)	
Maximum Access Points per Cluster	• 4096 (upgrade)	
Concurrent Authentication Users	• Concurrent Clients 32K	• Maximum Clients 64K

Access Point Management

Model of Managed APs	• DWL-8610AP • DWL-8600AP • DWL-6600AP	• DWL-3600AP • DWL-2600AP
AP Discovery & Control	• Layer-2	• Layer-3
AP Monitoring	• Managed AP • Rogue AP	• Authentication Fail AP • Standalone AP
Client Monitoring	• Authenticated Client • Rogue Client	• Authentication Fail Client • Ad-hoc Client
Centralized RF/ Security Policy Management	• Auto RF Management, RF Self-Healing	• Auto Power Adjustment

Roaming

Fast Roaming	• Supported	
Intra-controller/ Inter-controller Roaming	• Supported	• CAPWAP
	• Health Check	• Load Balance

Security

Wireless Security	• WEP • Dynamic WEP	• WPA Personal/Enterprise • WPA2 Personal/Enterprise
Wireless Intrusion Detection & Prevention System (WIDS & WIPS)	• Rogue and Valid AP Classification	• Rogue AP Mitigation
LAN Security	• 802.1x port-based access control and guest VLAN	• ACL
Authentication	• Captive Portal	• MAC Authentication

VLAN

VLAN Group	• Up to 4094 entries
802.1q VLAN Tagging	• Supported
Subnet-based VLAN	• Supported
Port-based VLAN	• Supported

DAC-2016 Wireless Access Controller

Network & Advance Application	
Permanent Account Authentication Method	<ul style="list-style-type: none"> • Local Database • External RADIUS • External LDAP • External POP3 • External Windows Active Directory (wired only)
Network Applications	<ul style="list-style-type: none"> • Static Route • RIPv1/v2 • OSPFv2 • NAT/NPAT
Temporary Account Creation	<ul style="list-style-type: none"> • Single or batch account generation by system with customized active or usage expired time
	<ul style="list-style-type: none"> • DHCP Relay • QoS

System Management	
Web-based User Interface	<ul style="list-style-type: none"> • HTTP • HTTPS
Command Line	<ul style="list-style-type: none"> • Supported
	<ul style="list-style-type: none"> • SNMP v1, v2c, v3 • SSH v2

Physical/Environmental	
Power Supply	<ul style="list-style-type: none"> • 36 V DC, 50-60 Hz Internal power supply and Redundant power supply support
Max. Power Consumption	<ul style="list-style-type: none"> • 750 W
Dimensions	<ul style="list-style-type: none"> • 448 x 451 x 266 mm (17.5 x 17.7 x 10.4 inches) 6U
Operating Temperature	<ul style="list-style-type: none"> • 0 to 40 °C (32 to 104 °F)
Storage Temperature	<ul style="list-style-type: none"> • -20 to 70 °C (-4 to 158 °F)
Operating Humidity	<ul style="list-style-type: none"> • 20% to 90%, Non-condensing
Emission (EMI)	<ul style="list-style-type: none"> • FCC Class A, CE Class A, C-Tick
Safety	<ul style="list-style-type: none"> • cUL, LVD (EN60950-1)

Ordering Information

Compatible D-Link Wireless Access Points

DWL-8610AP	Unified Concurrent Dual-band Access Point 802.11ac
DWL-8600AP	Unified Concurrent Dual-band Access Point 802.11n/g/b/a
DWL-6600AP	Unified Concurrent Dual-band Access Point 802.11n/g/b/a
DWL-3600AP	Unified Concurrent Single-band Access Point 802.11n/g/b
DWL-2600AP	Unified Concurrent Single-band Access Point 802.11n/g/b

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

Updated September 1, 2015