

Product Highlights

Reliable, Secure Network

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

Easy Guest Management

Features such as account (ticket) generation, user monitoring, and session extension provide extensive guest management options

Scalable Network Architecture

To meet evolving network demands, access point management can be upgraded from 6 to 24 APs per controller



DWC-1000

Wireless Controller

Features

Networking Architecture

- Manage up to 6 wireless access points; upgradable to 24 APs¹ per controller
- Cluster up to 4 units to manage a maximum of 96 wireless APs with fully upgraded licenses¹
- Wireless controller redundancy with 8 units (4+4 active/backup) for optimal reliability

Robust Security

- Wireless Intrusion Detection System (WIDS)
- Rogue AP detection and classification
- Captive portal
- WPA/2 Personal/Enterprise, WEP
- Firewall Policy²
- IPSec/PPTP/L2TP/SSL VPN server²
- Web content filtering²

Fault Tolerance

- Optional port traffic failover²
- Outbound load balancing²

The D-Link DWC-1000 Wireless Controller is a centralized wireless LAN manager developed specifically for campuses, branch offices, and small-to-medium businesses (SMBs). With the ability to manage up to 6 wireless access points (upgradable to 24) and a maximum of 96 wireless access points in a controller cluster, the DWC-1000 is a cost-effective mobility solution for small to medium-size deployments. Its auto-managed AP discovery and single point management allow customers to acquire an enterprise-class system without the burden of maintaining massive and complex configurations.

Robust and Optimized Network

The DWC-1000 features a self-organizing, self-optimizing, and self-healing network capability to increase the stability of the entire wireless network. With interval-based radio scanning and performance analysis, the DWC-1000 automatically adjusts radio channels and output power periodically to avoid interference and keep the wireless network in an optimized state. In the event of a sudden loss of wireless signal caused by a "dead" access point in the network, the DWC-1000 will increase the transmit output power of neighboring access points to expand RF coverage.

Comprehensive Security

The DWC-1000 provides a comprehensive wireless security solution for any network. On the wireless side, the DWC-1000 detects rogue access points and rogue clients using a Wireless Intrusion Detection System (WIDS), as well as anticipating wireless threats, preventing any potential damage and unauthorized access to the network. Other fundamental wireless security features include WPA Personal/Enterprise, WPA2 Personal/Enterprise, WEP, and MAC authentication to determine the identity of wireless devices. The captive portal feature allows administrators to block clients from accessing the network until the clients verify their identities. These authentication and authorization layers also provide a robust security barrier to protect against attacks from within the network.



DWC-1000 Wireless Controller

High Scalability, Availability, and Flexibility

To address the constantly growing scale and needs of business networks, the DWC-1000 offers a flexible selection of expansion features: administrators can purchase a Business Wireless Plus license to upgrade the capabilities of the DWC-1000. D-Link offers two types of Business Wireless Plus licenses: an AP license upgrade and a VPN license upgrade. The AP license upgrade increases the number of manageable access points. By default, the DWC-1000 can manage up to 6 access points. Purchasing an AP license will upgrade this to 24 access points per controller. The VPN license upgrade enables the DWC-1000 to provide VPN, router, and firewall functionality. The firewall function allows administrators to control network access by setting classification policies. The dual option ports provide link failover and provide Internet connection redundancy to ensure uninterrupted Internet connectivity. The virtual private network (VPN) features provide secure remote control to manage access points in branch offices. Site-to-site VPN tunnels use the IP Security (IPSec)

Protocol, Point-to-Point Tunneling Protocol (PPTP), or Layer 2 Tunneling Protocol (L2TP) to facilitate branch office connectivity through encrypted virtual links. In addition, the Secure Sockets Layer (SSL) VPN tunnels empower your mobile users by providing remote access to a central corporate database.

Simplified Management

Centralized remote control of managed access points provides a simple way to automatically discover compatible D-Link wireless access points, add them to the managed access point list, and configure them with one-time deployment settings. With the controller clustering feature, the administrator can easily log into one wireless controller and perform essential configurations on other wireless controllers in the cluster group. The real-time monitoring of access points and associated client stations enable the efficient utilization of network resources. System alarm and statistics reports on managed access points also help the administrator to use the DWC-1000 to manage, control, and optimize network performance.





Technical Specifications			
General			
Number of Ports	• 4 x 10/100/1000 Mbps ports • 2 x USB 2.0 ports	 2 x 10/100/1000 Mbps option ports³ 1 x 10/100/1000 Mbps console port 	
Port Standards & Functions	IEEE 802.3 for 10BASE-T IEEE 802.3u for 100BASE-TX/FX IEEE 802.3ab for 1000BASE-T Gigabit Ethernet		
Maximum Access Points pet Unit	• Default: 6	• Upgraded: 24	
Maximum Access Points per Cluster	• Default: 24	• Upgraded: 96	
Concurrent Captive Portal Authentication Users	• 512		
Dedicated IPSec VPN Tunnels ²	• 70		
Dedicated PPTP/L2TP VPN Tunnels ²	• 25		
Dedicated SSL VPN Tunnels ²	• 20		
Physical			
LED Indicators	• Speed (per 10/100/1000 Mbps port)		
Dimensions (L x W x H)	• 280 x 180 x 44 mm (11.02 x 7.09 x 1.73 in)		
Power Supply	Internal power supply 12 V DC/2.5 A		
Max. Power Consumption	• 19.3 W		
Temperature	• Operation: 0 to 40 °C (32 to 104 °F)	• Storage: -20 to 70 °C (-4 to 158 °F)	
Humidity	• 5% to 95% non-condensing		
EMI	FCC Class B VCCI IC	• CE Class B • C-Tick	
Safety	• cUL	• LVD (EN60950-1)	



DWC-1000 Wireless Controller

Software		
VPN & SSL VPN	VPN encryption DES DES SDES AES Twofish Blowfish Cast-128 NULL SSL VPN encryption DES DES AES AES	 IPSec NAT Traversal IP Encapsulating Security Payload (ESP) VPN tunnel keep alive Hub and spoke Dead Peer Detection IP Authentication Header (AH) SSL VPN Message Integrity MD5 SHA1
VLAN	VLAN Group Up to 255 entries Subnet-based VLAN	802.1g VLAN tagging Port-based VLAN
Networking	Route failover	Outbound load balancing
Roaming	Fast Roaming Intra-subnet/inter-subnet roaming	Intra-controller/inter-controller roaming
Firewall System	Policy Supports 100 rules per features Supports up to 600 firewall rules Web content filtering	Dynamic route RIPv1/v2Dynamic DNSNAT, PAT
Security	Wireless security WEP Dynamic WEP WPA personal/enterprise WPA 2 personal/enterprise LAN Security 802.1x port-based access control & guest VLAN Payment gateways Paypal Authorize.net	 Wireless Intrusion Detection System (WIDS) Rogue and valid AP classification Rogue AP mitigation Authentication Captive portal MAC authentication
Management	Web-based GUI HTTP SNMP v1/v2c/v3	Command Line Interface (CLI)
Access Point Management	Compatible Managed APs DWL-8710AP DWL-8610AP DWL-8600AP WL-6700AP DWL-6610AP DWL-6600AP DWL-3600AP 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

DWC-1000 Wireless Controller

Order Information		
Part Number	Description	
DWC-1000	Wireless Controller	
Compatible Wireless Access Points		
DWL-8710AP	802.11a/g/n/ac unified concurrent dual-band outdoor access point	
DWL-8610AP	802.11a/g/n/ac unified concurrent dual-band access point	
DWL-6700AP	802.11a/g/n unified concurrent dual-band outdoor access point	
DWL-6610AP	802.11a/g/n/ac unified concurrent dual-band access point	
DWL-8600AP	802.11a/g/n unified concurrent dual-band access point	
DWL-6600AP	802.11a/g/n unified concurrent dual-band access point	
DWL-3600AP	802.11g/n unified access point	
DWL-2600AP	802.11g/n unified access point	
Compatible Business Wireless Plus Licenses		
DWC-1000-AP6/AP6-LIC	Enables management of 6 additional access points	
DWC-1000-VPN/VPN-LIC	Enables VPN, router, and firewall functions	
DWC-1000-WCF-12/WCF-12-LIC	Enables the dynamic web content filtering (WCF) feature ^{4,5}	

Updated 2016/05/26



¹The number of managed APs can be increased through purchase of license upgrades.
²Features enabled through purchase of the VPN/Router/Firewall license upgrade.
³The first option port is enabled by default. The second option port can be enabled by purchasing the VPN/Router/Firewall license upgrade.
⁴The DWC-1000 WCF-12 license is valid for one year.
⁵Ensure that the DWC-1000 VPN license is activated before activating the WCF license.