Business Wireless

D-Link
Building Networks for People

Standalone Wireless

	Model	DAP-1665	DAP-2020	DAP-2230	DAP-2310	DAP-2360	DAP-2610	DAP-2660	DAP-2695	DAP-3320	DAP-3662
							802.11ac Wave 2 				
Hardware	Wireless standards	Simultaneous a/n/ac and b/g/n	b/g/n	b/g/n	b/g/n	b/g/n	Simultaneous a/n/ac (Wave 2) and b/g/n	Simultaneous a/n/ac and b/g/n	Simultaneous a/n/ac and b/g/n	b/g/n	Simultaneous a/n/ac and b/g/n
	Wireless frequency range	2.4 to 2.4835 GHz 5.15 to 5.875 GHz	2.4 to 2.4835 GHz	2.4 to 2.4835 GHz	2.4 to 2.4835 GHz	2.4 to 2.483 5GHz	2.4 to 2.4835GHz 5.15 to 5.875GHz	2.4 to 2.4835 GHz 5.15 to 5.875 GHz	2.4 to 2.4835 GHz 5.15 to 5.875 GHz	2.4 to 2.4835 GHz	2.4 to 2.4835 GHz 5.15 to 5.875 GHz
	Maximum wireless speed	867 Mbps - 5 GHz 300 Mbps - 2.4 GHz	300 Mbps - 2.4 GHz	300 Mbps - 2.4 GHz	300 Mbps - 2.4 GHz	300 Mbps - 2.4 GHz	867 Mbps - 5 GHz 400 Mbps - 2.4 GHz	867 Mbps - 5 GHz 300 Mbps - 2.4 GHz	1300 Mbps - 5 GHz 450 Mbps - 2.4 GHz	300 Mbps - 2.4 GHz	867 Mbps - 5 GHz 300 Mbps - 2.4 GHz
	MIMO	•	•	•	•	•	• (MU-MIMO)	•	•	•	•
	Antenna type	2 detachable omni-directional	2 detachable omni-directional	Embedded omni-directional	2 detachable omni-directional	2 detachable omni-directional	2 embedded omni-directional	4 embedded omni-directional	6 detachable omni-directional	Embedded omni-directional	4 embedded omni-directional
	Antenna gain	4 dBi for 2.4GHz 6 dBi for 5GHz	5 dBi	3 dBi	2 dBi	5 dBi	3 dBi for 2.4GHz 3 dBi for 5GHz	3 dBi for 2.4GHz 4 dBi for 5GHz	4 dBi for 2.4GHz 6 dBi for 5GHz	2 dBi	6 dBi for 2.4GHz 6 dBi for 5GHz
	Power-over-Ethernet (PoE)			• (802.3af)		• (802.3af)	• (802.3af)	• (802.3af)	• (802.3at)	• (802.3af)	• (802.3af)
	PoE pass-through										
	Wired interface	1 x Gigabit	1 x Fast Ethernet	1 x Fast Ethernet	1 x Gigabit	1 x Gigabit	1 x Gigabit	1 x Gigabit	2 x Gigabit	1 x Fast Ethernet	2 x Gigabit
	Console port								•		
	Type of housing	Plastic	Plastic	Plastic	Plastic	Metal	Plastic	Plastic	Metal	Plastic	Plastic
	Outdoor housing (IP rating)									• (IP55)	• (IP68)
	Plenum rated (UL-2043)					•			•		
Wireless Modes	Access point (AP)	•	•	•	•	•	•	•	•	•	•
	WDS with AP			•	•	•	•	•	•	•	•
	WDS / bridge			•	•	•	•	•	•	•	•
	Wireless client	•	•	•	•	•	•	•	•	•	•
Wireless Features	Maximum number of SSIDs	1	1	8	8	8	16	16	16	8	16
	Auto channel selection	•	•	•	•	•	•	•	•	•	•
	WMM-PS/802.11e (U-APSD)	•	•	•	•	•	•	•	•	•	•
	Wi-Fi scheduler	•	•	•	•	•	•	•	•	•	•
	AP traffic load balance			•	•	•	•	•	•	•	•
	L2 roaming				•	•	•	•	•	•	•
Security	WEP 64/128bit	•	•	•	•	•	•	•	•	•	•
	WPA/WPA2-Personal/Enterprise	•	•	•	•	•	•	•	•	•	•
	TKIP/AES encryption	•	•	•	•	•	•	•	•	•	•
	WPA/WPA2-PSK over WDS			•	•	•	•	•	•	•	•
	WLAN partition	•	•	•	•	•	•	•	•	•	•
	SSID broadcast disable	•	•	•	•	•	•	•	•	•	•
	Rogue AP detection			•	•	•	•	•	•		•
	Station Isolation	•	•	•	•	•	•	•	•	•	•
	MAC address filtering	•	•	•	•	•	•	•	•	•	•
	802.1X authentication	•	•	•	•	•	•	•	•	•	•
Network	DHCP server	•	•	•	•	•	•	•	•	•	•
	802.1D STP, IGMP snooping, ARP spoofing, SNTP	• (no ARP spoofing prevention)	IGMP snooping only	•	•	•	•	•	•	•	•
	IPv6	•	•	•	•	•	•	•	•	•	•
Management	WEB	•	•	•	•	•	•	•	•	•	•
	SNMP (v1, v2c, v3)			•	•	•	•	•	•	•	•
	CLI, Telnet, SSH			•	•	•	•	•	•	•	•
	Syslog	•		•	•	•	•	•	•		•
	Central management through AP Manager II				•	•			•		
	Central management through Central WiFiManager			•	• (H/W ver. B1)	• (H/W ver. B1)	•	•	•	•	•
	Configuration group sync through AP Array			• (up to 32 APs)	• (up to 8 APs)	• (up to 8 APs)	• (up to 32 APs)	• (up to 32 APs)	• (up to 8 APs)	• (up to 32 APs)	• (up to 32 APs)

› Enable small and medium-sized businesses to create a high performance wireless network with enhanced coverage, reliability and security, at a low total cost of ownership.

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Unified Wireless







	Model	DWL-2600AP	DWL-3600AP	DWL-3610AP	DWL-6600AP / DWL-6600AP/PC	DWL-6610AP	DWL-6610APE	DWL-6700AP	DWL-8610AP	DWL-8710AP
Hardware	Wireless standards	b/g/n	b/g/n	Selectable a/n/ac and b/g/n	Simultaneous a/n and b/g/n	Simultaneous a/n/ac and b/g/n	Simultaneous a/n/ac and b/g/n	Simultaneous a/n and b/g/n	Simultaneous a/n/ac and b/g/n	Simultaneous a/n/ac and b/g/n
	Wireless frequency range	2.4 to 2.4835GHz	2.4 to 2.4835GHz	2.4 to 2.4835GHz 5.15 to 5.875GHz	2.4 to 2.4835GHz 5.15 to 5.875 GHz	2.4 to 2.4835GHz 5.15 to 5.875GHz	2.4 to 2.4835GHz 5.15 to 5.875GHz	2.4 to 2.4835GHz 5.15 to 5.875 GHz	2.4 to 2.4835GHz 4.9 to 5.85 GHz	2.4 to 2.4835GHz 4.9 to 5.85 GHz
	Maximum wireless speed	300 Mbps - 2.4 GHz	300 Mbps - 2.4 GHz	867 Mbps - 5 GHz 300 Mbps - 2.4 GHz	300 Mbps - 5 GHz 300 Mbps - 2.4 GHz	867 Mbps - 5 GHz 300 Mbps - 2.4 GHz	867 Mbps - 5 GHz 300 Mbps - 2.4 GHz	300 Mbps - 5 GHz 300 Mbps - 2.4 GHz	1300 Mbps - 5 GHz 450 Mbps - 2.4 GHz	1300 Mbps - 5 GHz 450 Mbps - 2.4 GHz
	MIMO	•	•	•	•	•	•	•	•	•
	Antenna type	Embedded omni-directional	Embedded omni-directional	Embedded omni-directional antennas	Embedded omni-directional with external connectors	Embedded omni-directional antennas	4 detachable omni-directional	Embedded omni-directional (2.4 GHz) and directional (5 GHz)	Embedded omni-directional antennas	4 detachable omni-directional
	Antenna gain	3 dBi	4.7 dBi	3 dBi for 2.4GHz 3 dBi for 5GHz	5 dBi for 2.4GHz 6 dBi for 5GHz	3.5 dBi for 2.4GHz 5 dBi for 5GHz	3 dBi for 2.4GHz 4 dBi for 5GHz	3 dBi for 2.4GHz 8 dBi for 5GHz	5 dBi for 2.4GHz 6.5 dBi for 5GHz	5 dBi for 2.4GHz 7 dBi for 5GHz
	Power-over-Ethernet	• (802.3af)	• (802.3af)	• (802.3af)	• (802.3af)	• (802.3at)	• (802.3af)	• (proprietory)	• (802.3at)	• (802.3at)
	Wired interface	1 x Fast Ethernet	1 x Gigabit Ethernet	1 x Gigabit Ethernet	1 x Gigabit Ethernet	1 x Gigabit Ethernet	1 x Gigabit Ethernet	2 x Fast Ethernet	2 x Gigabit Ethernet	2 x Gigabit Ethernet
	Console port	•	•	•	•	•	•	•	•	•
	Type of housing	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Metal/plastic	Metal/plastic
	Outdoor housing (IP rating)							• (IP55)		• (IP67)
	Plenum rated (UL-2043)		•		• (for DWL-6600AP only)	•	•		•	•
Wireless Modes	Access point (AP)	•	•	•	•	•	•	•	•	•
	WDS with AP	•	•	•	•	•	•	•	•	•
	WDS / bridge	•	•	•	•	•	•	•	•	•
Wireless Features	Maximum number of SSIDs	16	16	16	32 (16 per radio)	32 (16 per radio)	32 (16 per radio)	8 (4 per radio)	32 (16 per radio)	32 (16 per radio)
	Auto channel selection	•	•	•	•	•	•	•	•	•
	WMM-PS/802.11e (U-APSD), AP traffic load balance	•	•	•	•	•	•	•	•	•
	Wi-Fi scheduler	•	•	•	•	•	•	•	•	•
	L2 roaming	•	•	•	•	•	•	•	•	•
Security	WEP 64/128bit, WPA/WPA2-Personal/ Enterprise, TKIP/AES encryption	•	•	•	•	•	•	• (no WEP encryption)	•	• (no WEP encryption)
	WPA/WPA2-PSK over WDS	•	•	•	•	•	•	•	•	•
	WLAN partition	•	•	•	•	•	•	•	•	•
	SSID broadcast disable	•	•	•	•	•	•	•	•	•
	Rogue AP detection, station isolation	•	•	•	•	•	•		•	•
	MAC address filtering, 802.1X authentication	•	•	•	•	•	•	•	•	•
Wireless Controller/Unified Switch Managed Features	Rogue AP mitigation	•	•	•	•	•	•		•	•
	L2/L3 fast roaming	•	•	•	•	•	•	•	•	•
	WIDS/WIPS	•	•	•	•	•	•		•	•
	Auto-channel, auto-RF management	•	•	•	•	•	•	•	•	•
	AP load balance	•	•	•	•	•	•	•	•	•
	Captive portal	•	•	•	•	•	•	•	•	•
	View neighbour AP information	•	•	•	•	•	•	•	•	•
	Supported D-Link Wireless Controller/ Unified Switch models	DWC-1000, DWC-2000, DWS-3160, DWS-4026	DWC-1000, DWC-2000, DWS-3160, DWS-4026	DWC-1000, DWC-2000, DWS-3160, DWS-4026	DWC-1000, DWC-2000, DWS-3160, DWS-4026	DWC-1000, DWC-2000, DWS-3160, DWS-4026	DWC-1000, DWC-2000, DWS-3160, DWS-4026	DWC-1000, DWC-2000, DWS-3160, DWS-4026	DWC-1000, DWC-2000, DWS-3160, DWS-4026	DWC-1000, DWC-2000, DWS-3160, DWS-4026
Management	WEB	•	•	•	•	•	•	•	•	•
	SNMP (v1, V2c, v3)	•	•	•	•	•	•		•	•
	CLI, Telnet, SSH	•	•	•	•	•	•	SSH only	•	•
	Syslog	•	•	•	•	•	•	•	•	•
	Central management (Wireless Controller, Unified Switch, D-View Wireless Control Module)	•	•	•	•	•	•	•	•	•
	Configuration group sync through AP Array	• (up to 8 APs)	• (up to 8 APs)	• (up to 8 APs)	• (up to 8 APs)	• (up to 8 APs)	• (up to 8 APs)		• (up to 8 APs)	• (up to 8 APs)

› Saves time and resources by configuring and managing multiple access points from a single managed wireless switch. This avoids repeated configurations and improves control of the wireless network.

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Managed Wireless

		Central WiFiManager				
		Central WiFiManager	DWC-1000 (H/W vers. C1)	DWC-2000	DWS-3160-24TC	DWS-3160-24PC
Hardware Features	Number of Gigabit ports		6		20	20
	Number of Combo 1000Base-T/SFP ports			4	4	4
	Number of optional 10G uplinks					
	802.3af Power-over-Ethernet (standards supported)					• (802.3af, 802.3at)
	PoE power budget (with RPS)					370W (740W)
	Switching capacity				48 Gbps	48 Gbps
WLAN Management	Maximun AP per device (Controller)	500	42 (168 with cluster of 4 x DWC-1000)*	256 (1024 with cluster of 4 x DWC-2000)*	48 (192 with cluster of 4 x DWS-3160)	48 (192 with cluster of 4 x DWS-3160)
	Controller Redundancy		•	•	•	•
	AP-Controller connection mode	Bridge	Bridge/tunnel	Bridge/tunnel	Bridge/tunnel	Bridge/tunnel
	Visualised Topology	•	•	•	•	•
	NAT pass through (AP)	•				
	Multi-Tenancy	•				
	WIDS		•	•	•	•
	IPv6		•	•	•	•
User authentication	Captive Portal	•	•	•	•	•
	Authentication method	Local DB, external RADIUS, LDAP, POP3, Wi-Fi passcode	Local DB, external RADIUS, NAP (Network Access Protection)	Local DB, external RADIUS, NAP (Network Access Protection)	Local DB, external RADIUS, TACACS+	Local DB, external RADIUS, TACACS+
	Web redirect	•	•	•	•	•
RF	Auto Transmit Power Control	•	•	•	•	•
	Self-healing around failed APs	•	•	•	•	•
Wireless Feature	Multiple SSID per Radio(AP)	8	16	16	16	16
	BandSteering	•	•	•	•	•
	Seamless Roaming		•	•	•	•
	L2/L3 Roaming	L2 roaming	L2 roaming	L2 roaming	•	•
	Bandwidth Optimisation	•	• (QoS)	• (QoS)	• (QoS)	• (QoS)
	Load Balancing		•	•	•	•
System Management	Web-based User Interface	HTTPS	HTTP	HTTP	HTTP/HTTPS	HTTP/HTTPS
	Multi-Language					
	Firmware/Module online check	•				
	Remote Management	•	•	•	•	•
	Firmware/Configuration upgrade by Scheduling	•				
Networking	WAN fail-over		•			
	Layer 3 routing (table size)		• (100)	• (2048)	• (512)	• (512)
	Firewall		•			
	VLAN		•	•	•	•
	Integrated Switch/PoE				•	•
	Support VPN gateway		• (VPN license upgrade)			
	Build in DHCP server		•	•	•	•
Others	Supported AP	DAP-2230 DAP-2310 H/W ver. B1 DAP-2360 H/W ver. B1 DAP-2610 DAP-2660 DAP-2695 DAP-3320 DAP-3362	DWL-2600AP DWL-3600AP DWL-3610AP DWL-6600AP DWL-6600AP/PC DWL-6610APE DWL-6700AP DWL-8610AP DWL-8710AP	DWL-2600AP DWL-3600AP DWL-3610AP DWL-6600AP DWL-6600AP/PC DWL-6610APE DWL-6700AP DWL-8610AP DWL-8710AP	DWL-2600AP DWL-3600AP DWL-3610AP DWL-6600AP DWL-6600AP/PC DWL-6610APE DWL-6700AP DWL-8610AP DWL-8710AP	DWL-2600AP DWL-3600AP DWL-3610AP DWL-6600AP DWL-6600AP/PC DWL-6610APE DWL-6700AP DWL-8610AP DWL-8710AP
	Optional license upgrades		DWC-1000-AP6-LIC DWC-1000-VPN-LIC	DWC-2000-AP32-LIC DWC-2000-AP64-LIC DWC-2000-AP128-LIC	DWS-316024TCAP12-LIC DWS-316024TCAP24-LIC DWS-316024PCAP12-LIC DWS-316024PCAP24-LIC	WS-316024TCAP12-LIC DWS-316024TCAP24-LIC DWS-316024PCAP12-LIC DWS-316024PCAP24-LIC

* Through optional license upgrades

❯ Saves time and resources by configuring and managing multiple access points from a single software or hardware-based wireless controller or unified switch. This avoids repeated configurations and improves control of the wireless network.

Central WiFiManager CWM-100

› This software controller allows you to manage and monitor up to 500 wireless access points either within a local network or remotely. It is free to download, works with a range of wireless APs and supports many enhanced wireless network management features as well as multi-tenancy and NAT pass-through.

Scalable, Flexible, Centralised AP Management

Manage up to 500 APs from a single location, complete with a multi-tenant structure that provides multi-layer management authority

Remote Access Made Easy

Access Central WiFiManager anytime, anywhere through the Internet by using a web browser on your PC, smartphone or tablet

Built For Business

Enterprise-level features such as bandwidth optimisation, web authentication (captive portal) and RF optimisation help satisfy the needs of the modern business environment

Ideal for

Enterprise

- Administrator can manage and monitor wireless network easily
- Enable captive portal and access control for employee and guest use
- Enable auto RF management, bandwidth optimisation and band steering for better wireless usage

Education

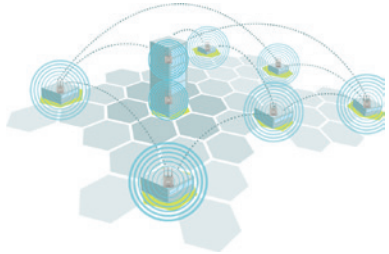
- The CWM-100 server can be implemented in each school and the education authority can manage multiple schools
- Enable captive portal and access control for teacher and student use
- Enable multicast rate control and IGMP snooping to improve multicast performance

Chain store

- CWM-100 can be implemented in the head office and then manage each store's wireless network
- The staff can generate Wi-Fi passcode for guest use
- Enable captive portal, auto RF management, bandwidth optimisation

Managed wireless service provider

- Pre-configure APs before dispatching to customers
- Provide remote management of customer's wireless network and network access
- Service provider can manage all access points whilst allowing individual customers to have certain management rights on their own network



Features

Web-based management

- Software controller that can be installed on a Microsoft Windows computer and accessed through any device with a web browser such as a smartphone, tablet or computer

Multi-site management

- Multiple distributed sites can be managed from a central location
- The multi-tenant architecture provides multi-layer management authority

NAT pass-through

- Controllers can manage wireless access points in remote locations even if they are behind a NAT device (router or firewall)

Captive portal and access control

- Supports local DB, external RADIUS, LDAP, POP3 and Wi-Fi passcode authentication
- Supports user access control

Auto radio frequency (RF) management

- Supports automatic channel and output power optimisation

Bandwidth optimisation

- Optimises wireless bandwidth