

DCN Europe

Switch to
a New Generation

ACCESS POINTS



WL8200-12 (R2)

WL8200-13 (R2)

WL8200-VVH2

WL8200-WL2

WL8200-IT3



High-performance
RF characteristics



High-speed wireless
broadband access



Intelligent load balancing
mechanism



Automatic emergency
mechanism



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HIGH PERFORMANCE AND HIGH RELIABILITY WIRELESS NETWORK

DCN Access Points support the 802.11a/b/g/n/ac standard and operate in a 2.4 GHz or 5 GHz band which provides an access bandwidth of up to 2.9Gbps.

THE BEST SOLUTION FOR HIGH DENSITY SCENE

In our product portfolio we have dual-band and tri-band Access Points which can give a reliable access to much more clients simultaneously than other APs. MU-MIMO technology greatly improves system performance because it can simultaneously transmit data to multiple Wi-Fi clients at any time.

INTELLIGENT LOAD BALANCING MECHANISM

ensures good connection quality not only verifying signal strength but also analysing network traffic, the number of users or the used frequency bands. Large number of clients can be connected to the same AP simply because the AP provides strong signals. When more clients are connected to an AP, the bandwidth available to each client will be smaller, thereby greatly affecting user experience.

ADVANCED SECURITY FEATURES

such as user isolation, intrusion detection and defence, blacklist, whitelist or wireless SAVI, PEAP user authentication will ensure the privacy and security of network users' data. DCN smart APs may be used with wireless ACs to provide multiple secure access, authentication and accounting mechanisms for various application environments. These mechanisms include: 802.1x authentication, Captive portal authentication, including built-in portal and custom portal authentication modes, MAC address authentication, LDAP authentication, WAPI encryption and authentication, wired/wireless integrated authentication and accounting.

AUTOMATIC EMERGENCY MECHANISM OF ACCESS POINTS

DCN wireless APs support an automatic emergency mechanism. This mechanism enables an AP to intelligently detect links. When detecting that the wireless AC is down, the AP quickly switches its operating mode so that it may continue to forward data while enabling new users to access the network. This mechanism attains high availability in the entire wireless network and really helps wireless users to be always online.

INTELLIGENT RF MANAGEMENT WITH CONTROLLERS

DCN smart APs may be used with a wireless AC to perform automatic power and channel adjustment. ACs employ particular RF detection and management algorithms to attain a better RF coverage effect. When the signals of an AP are interfered by strong external signals, the AP may automatically switch to an appropriate operating channel under the control of the AC to avoid such interference, thereby guaranteeing wireless network communications. The system also supports wireless network blackhole compensation. When an AP in the network accidentally stops operating, the RF management function of the AC compensates the resulting blind area of signals so that the wireless network can still operate normally.

WL8200-I2 (R2)
WL8200-I3 (R2)
WL8200-WH2
WL8200-WL2
WL8200-IT3
Hardware Specification

Application	Indoor	Indoor	Indoor	Indoor	Outdoor
Ports	Uplink: 1x 10/100/1000Base-T RJ45	Uplink: 1x 10/100/1000Base-T RJ45 Downlink: 1x 10/100/1000Base-T RJ45	Uplink: 1x 10/100/1000Base-T RJ45 Downlink: 4x 10/100/1000Base-T RJ45 Passthrough - 1x RJ45	Uplink: 1x 10/100Base-TX RJ45 Downlink: 2x 10/100Base-TX RJ45	Uplink: 1x 10/100/1000Base-T RJ45 Downlink: 1x 10/100/1000Base-T RJ45 1x 100/1000Base-X SFP
USB port	1x USB 2.0	1x USB 2.0	1x USB 2.0	-	-
Bluetooth	-	-	-	-	1x Bluetooth 2.0
Installation type	Desktop, Ceiling, T-keel, Wall mounting	Desktop, Ceiling, T-keel, Wall mounting	Standard X86 in-wall mounting	Standard X86 in-wall mounting	Column hanging / Wall hanging
Transmit power	2.4GHz : 24dBm (Per Chain) 5GHz : 20dBm (Per Chain)	2.4GHz : 24dBm (Per Chain) 5GHz : 20dBm (Per Chain)	2.4GHz : 20dBm 5GHz : 20dBm	17dBm (Per Chain)	2.4GHz : 27dBm (Per Chain) 5GHz : 27dBm (Per Chain)
Power adjustment granularity	1dBm	1dBm	1dBm	1dBm	1dBm
RF port	Built-in: 2.4GHz – 4dBi 5 GHz - 5dBi	Built-in: 2.4GHz – 4dBi 5 GHz - 5dBi	Built-in: 3dBi	Built-in: 5dBi	Built-in: 2.4GHz – 10dBi 5 GHz – 10dBi
MIMO	2.4GHz: 2x2 MU-MIMO 5GHz: 2x2 MU-MIMO	2.4GHz: 2x2 MU-MIMO 5GHz: 4x4 MU-MIMO	2.4GHz: 3x3 MU-MIMO 5GHz: 2x2 MU-MIMO	2.4GHz: 2x2 MU-MIMO 5GHz: 1x1 SU-MIMO	2.4GHz: 2x2 MU-MIMO 5GHz: 2x2 MU-MIMO
Working frequency band	802.11a/n : from 5.150 GHz to 5.850 GHz 802.11b/g/n : from 2.4 GHz to 2.483 GHz 802.11ac : from 5.150GHz to 5.250GHz from 5.250GHz to 5.350GHz from 5.725GHz to 5.850GHz Wave2	802.11a/n : from 5.150 GHz to 5.850 GHz 802.11b/g/n : from 2.4 GHz to 2.483 GHz 802.11ac : from 5.150GHz to 5.250GHz from 5.250GHz to 5.350GHz From 5.725GHz to 5.850GHz Wave2	802.11a/n : from 5.150 GHz to 5.850 GHz 802.11b/g/n : from 2.4 GHz to 2.483 GHz 802.11ac : from 5.150GHz to 5.250GHz from 5.250GHz to 5.350GHz from 5.725GHz to 5.850GHz Wave2	802.11a/n : from 5.150 GHz to 5.850 GHz 802.11b/g/n : from 2.4 GHz to 2.483 GHz 802.11ac : from 5.150GHz to 5.250GHz from 5.250GHz to 5.350GHz from 5.725GHz to 5.850GHz Wave1	802.11b/g/n : from 2.4 GHz to 2.483 GHz 802.11ac/n/a : from 5.490GHz to 5.850GHz from 5.150GHz to 5.350GHz Wave2
Maximum data rate	2.4G: 300Mbps 5G: 867Mbps	2.4G: 300Mbps 5G: 867Mbps	2.4G: 450Mbps 5G: 867Mbps	2.4G: 300Mbps 5G: 433Mbps	2.4G: 400Mbps 5G: 867Mbps
Modulation technology	802.11b : BPSK,QPSK,CCK 802.11a/g/n: BPSK,QPSK,16-QAM,64-QAM 802.11ac : BPSK, QPSK,16-QAM, 64-QAM,256-QAM	802.11b : BPSK,QPSK,CCK 802.11a/g/n: BPSK,QPSK,16-QAM,64-QAM 802.11ac : BPSK, QPSK,16-QAM,64-QAM, 256-QAM	802.11b : BPSK, QPSK, CCK 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM 802.11ac : BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM	OFDM:BPSK@6/9Mbps, QPSK@12/18Mbps, 16-QAM@24Mbps, 64-QAM@48/54Mbps DSSS: DBPSK@1Mbps, DQPSK@2Mbps, CCK@5.5/11Mbps MIMO-OFDM: MCS 0-15	OFDM : BPSK@6/9Mbps, QPSK@12/18Mbps, 16-QAM@24Mbps, 64-QAM@48/54Mbps DSSS : DBPSK@1Mbps, DQPSK@2Mbps, CCK@5.5/11Mbps MIMO-OFDM (11n): MCS 0-15 MIMO-OFDM (11ac): MCS 0-9

WLAN

Working mode	Dual-Band	Tri-Band	Dual-Band	Dual-Band	Dual-Band
Working frequency band	2.4 GHz and 5 GHz	2.4 GHz and 5 GHz	2.4 GHz and 5 GHz	2.4 GHz and 5 GHz	2.4 GHz and 5 GHz
Virtual AP (BSSID)	32	48	32	32	32
Number of spatial streams	2.4GHz: 2 5GHz: 2	2.4GHz : 2 5GHz : 4 2.4GHz 5GHz: 2	2.4GHz : 3 5GHz : 2	2.4GHz : 2 5GHz : 1	2.4GHz : 2 5GHz : 2
Dynamic channel adjustment (DCA)	√	√	√	√	√
Transmit power control (TPC)	√	√	√	√	√
Blind area detection and repair	√	√	√	√	√
SSID hiding	√	√	√	√	√
RTS/CTS	√	√	√	√	√
RF environment scanning	√	√	√	√	√
Hybrid access	√	√	√	√	√
Restriction on the number of access users	√	√	√	√	√
Link integrity check	√	√	√	√	√
Prohibiting the access of terminals with weak signals	√	√	√	√	√
Forced roaming of terminals with weak signals	√	√	√	√	√
Intelligent control of terminals based on Airtime Fairness	√	√	√	√	√
High-density application optimization	√	√	√	√	√

Security					
Encryption	64/128 WEP, TKIP, CCMP	64/128 WEP, TKIP, CCMP	64/128 WEP, TKIP, CCMP	64/128 WEP, TKIP, CCMP	64/128 WEP, TKIP, CCMP
IEEE 802.11i	✓	✓	✓	✓	✓
WAPI	✓	✓	✓	✓	✓
MAC address authentication	✓	✓	✓	✓	✓
LDAP authentication	✓	✓	✓	✓	✓
PEAP authentication	✓	✓	✓	✓	✓
WIDS/WIPS	✓	✓	✓	✓	✓
Real-time spectrum protection	✓	✓	✓	✓	✓
Protection against DoS attacks	✓	✓	✓	✓	✓
Forwarding security	Frame filtering, white list, static blacklist, and dynamic blacklist	Frame filtering, white list, static blacklist, and dynamic blacklist	Frame filtering, white list, static blacklist, and dynamic blacklist	Frame filtering, white list, static blacklist, and dynamic blacklist	Frame filtering, white list, static blacklist, and dynamic blacklist
User isolation	✓	✓	✓	✓	✓
Periodic SSID enabling and disabling	✓	✓	✓	✓	✓
Access control of free resources	✓	✓	✓	✓	✓
Secure admission control of wireless terminals	✓	✓	✓	✓	✓
Wireless SAVI	✓	✓	✓	✓	✓
ACL	✓	✓	✓	✓	✓
Secure access control of APs	✓	✓	✓	✓	✓
Qos					
WMM	✓	✓	✓	✓	✓
Priority mapping	✓	✓	✓	✓	✓
QoS policy mapping	✓	✓	✓	✓	✓
L2-L4 packet filtering and flow classification	MAC, IPv4, and IPv6 packets	MAC, IPv4, and IPv6 packets	MAC, IPv4, and IPv6 packets	MAC, IPv4, and IPv6 packets	MAC, IPv4, and IPv6 packets
Load balancing	✓	✓	✓	✓	✓
Bandwidth limit	✓	✓	✓	✓	✓
Call admission control (CAC)	CAC based on the number of users	CAC based on the number of users	CAC based on the number of users	CAC based on the number of users	CAC based on the number of users
Power saving mode	✓	✓	✓	✓	✓
Automatic emergency mechanism of APs	✓	✓	✓	✓	✓
Intelligent identification of terminals	✓	✓	✓	✓	✓
Multicast enhancement	Multicast to unicast	Multicast to unicast	Multicast to unicast	Multicast to unicast	Multicast to unicast
Management					
Console port	-	1x RJ45 (RS-232)	-	-	-
Network management	Centralized management through an AC; both „fit“ and „fat“ modes	Centralized management through an AC; both „fit“ and „fat“ modes	Centralized management through an AC; both „fit“ and „fat“ modes	Centralized management through an AC; both „fit“ and „fat“ modes	Centralized management through an AC; both „fit“ and „fat“ modes
Maintenance mode	Both local and remote maintenance	Both local and remote maintenance	Both local and remote maintenance	Both local and remote maintenance	Both local and remote maintenance
Log function	✓	✓	✓	✓	✓
Alarm	✓	✓	✓	✓	✓
Fault detection	✓	✓	✓	✓	✓
Statistics	✓	✓	✓	✓	✓
Remote probe analysis	✓	✓	✓	✓	✓
Dual-image (dual-OS)	✓	✓	✓	✓	✓
Watchdog	✓	✓	✓	✓	✓
Physical					
Working temperature	0°C +50°C	0°C +50°C	5°C +50°C	5°C +50°C	-40°C +65°C
Working humidity	10% - 90% (non-condensing)	10% - 90% (non-condensing)	10% - 90% (non-condensing)	10% - 90% (non-condensing)	10% - 90% (non-condensing)
Protection level	IP41	IP41	IP31	IP31	IP68
Dimensions (W x D x H)	247mm×153mm×30mm	247mm×153mm×30mm	150mm×86mm×27mm	86mm×86mm×22mm	214mm×214mm×67.5mm
Electrical					
Power supply via PoE	IEEE 802.3af / IEEE 802.3at	IEEE 802.3af / IEEE 802.3at	IEEE 802.3af / IEEE 802.3at	IEEE 802.3af	IEEE 802.3at
Power consumption	≤ 15W	≤ 18W	≤ 12W	≤ 6W	≤ 23.4W
Optional Power Adapter	Input: 100~240V AC , Output: 12 V DC	Input: 100~240V AC , Output: 12 V DC	Input: 100~240V AC , Output: 48V DC	-	-