

Dell Networking W-Series wireless products deliver industry-leading connectivity for enterprise mobility. The Dell W-Series provides highly differentiated, context-aware access policies based on the type of user, device, application and location, as well as the flexibility to use any mobile or computing device when implementing a BYOD access policy.

Learn more at Dell.com/Wireless

			3rd generation							
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W-7005	W-7010	W-7030	W-7210	W-7220	W-7240	W-650	W-3200	W-3400	W-3600	W-6000M3 (up to four per chassis)
Campus and branch Headquarters, high density campus or large enterprise				Campus and branch Headqua				rs, large campus		
16	32	64	512	1,024	2,048	16	32	64	128	512/mod. (2,048 max.)
16	32	64	512	1,024	2,048	16	128	256	512	1,024/mod. (4,096 max.)
1,024	2,048	4,096	16,384	24,576	32,768	512	2,048	4,096	8,192	8,192/mod. (32,768 max.)
2Gbps	4Gbps	8Gbps	20Gbps	40Gbps	40Gbps	2Gbps	3Gbps	4Gbps	4Gbps	20Gbps/mod. (80Gbps max.)
4,094	4,094	4,094	4,094	4,094	4,094	128	128	256	512	1,400/mod. (5,600 max.)
n/a	2 SFP	8 (combo)	2 (combo)	2 (combo)	2 (combo)	6	4	4	4	10
4	16	8 (combo)	2 (combo)	2 (combo)	2 (combo)	0	4	4	4	0
0	0	0	4 SFP+	4 SFP+	4 SFP+	0	0	0	0	2 XFP
0	12 (max 150W)	0	0	0	0	4	0	0	0	0
1	2	1	None	None	None	4	None	None	None	None
Compact	1RU	1RU	1RU	1RU	1RU	Desktop/rack	1RU	1RU	1RU	4RU
16,384	32,768	65,536	2,015,291	2,015,291	2,015,291	16,384	128,000	128,000	128,000	524,300 (2,097,200 max
512	1,024	2,048	16,384	24,578	32,768	512	2,048	4,096	4,096	4,096/mod. (16,384 max.)
1.2Gbps	2.4Gbps	2.4Gbps	10Gbps	30Gbps	40Gbps	1.6Gbps	1.6Gbps	4Gbps	8Gbps	8Gbps/mod. (32Gbps max.)
2.2Gbps	3.6Gbps	4.4Gbps	6Gbps	20Gbps	40Gbps	800Mbps	800Mbps	2Gbps	4Gbps	4Gbps/mod. (16Gbps max.)
n/a	n/a	n/a	Yes	Yes	Yes	n/a	n/a	n/a	n/a	Yes
16.6 watts (with USB); can be powered by PoE	190 watts (with PoE)	55 watts	110W	125W	165W	126W	35W	45W	60W	130W/mod. (1,384W max.)
802.11 a/b/g/n/ac	certified. FIPS/TAA c	ertified products av	ailable for governm	hent use.	1	1	1		1	
SFP-LX, SFP-SX, SF	P-TX, XFP-LR, XFP-	-SR, SFP-10GE-LR,	SFP-10GE-LR and	SFP-10GE-LRM. Op	tions vary based on	controller.				
WEP, TKIP, DES, AE	S-CCMP, 3DES, AE	S-CBC								
WPA-Enterprise, W	/PA-PSK, WPA2-Ent	erprise, WPA2-PSK,	. 802.1X, MAC addr	ess, captive portal						
Dell AirWave Manage	ement Suite. Also supp	oorts SNMP, web, CLI	using SSH, Telnet an	d console port.						
One year hardware	e, 90 day software.	These can be furth	er supplemented w	vith Dell services Pr	oSupport					
Dell offers a variety of	of services ranging from	m product support to	installation and com	plete IT outsourcing.	Get a free consultatio	on at Dell.com/networ	kconsulting			
<ul> <li>Wireless Intrusion Protection (WIP): Safeguard against wireless security threats, provide visibility into sources of RF interference, and eliminate the need for separate RF sensors and security appliances.</li> <li>Policy Enforcement Firewall (PEF): Provide identity-based controls to enforce application-layer security, prioritization, traffic forwarding and network performance policies for wired and wireless networks.</li> <li>Policy Enforcement Firewall with VPN (PEFV): Create a secure tunnel and allow your virtual private network (VPN) traffic to enter the controller. Also works with ViA client device software</li> </ul>										
	16 16 1,024 2Gbps 4,094 1,024 2Gbps 4,094 0 0 0 0 0 1 Compact 16,384 512 1.2Gbps 2.2Gbps 1.2Gbps 2.2Gbps 2.2Gbps 802.11 a/b/g/n/ac SFP-LX, SFP-SX, SF WEP, TKIP, DES, AE WPA-Enterprise, W Dell AirWave Manage One year hardware Dell offers a variety of •Wireless Intrusion •Policy Enforceme	Campus and branch163216321,0242,0482Gbps4Gbps4,0944,094n/a2 SFP41600012 (max 150W)12Compact1RU16,38432,7685121,0241.2Gbps2.4Gbps2.2Gbps3.6Gbps5121,02416,6 watts (with USB); can be powered by PoE190 watts (with PoE)802.11 a/b/g/n/ac certified. FIPS/TAA certified	Campus and branch           16         32         64           16         32         64           16         32         64           1,024         2,048         4,096           2Gbps         4Gbps         8Gbps           4,094         4,094         4,094           n/a         2 SFP         8 (combo)           4         16         8 (combo)           0         0         0           0         12 (max 150W)         0           1         2         1           Compact         1RU         1RU           16,384         32,768         65,536           512         1,024         2,048           1.2Gbps         2.4Gbps         2.4Gbps           2.2Gbps         3.6Gbps         4.4Gbps           n/a         n/a         n/a           16.6 watts (with powered by Poel         190 watts (with PoE)         55 watts           802.11 a/b/g/n/ac certified. FIPS/TAA certified products av SFP-LX, SFP-SX, SFP-TX, XFP-LR, XFP-SR, SFP-10GE-LR,         WPA-Enterprise, WPA-PSK, WPA2-Enterprise, WPA2-PSK,           0R4-Enterprise, WPA-PSK, WPA2-Enterprise, WPA2-PSK,         Dell AirWave Management Suite. Also supports SNMP, web, CLI One year hardware, 90 day software. Thes	Campus and branch         Headquarters, hi           16         32         64         512           16         32         64         512           10         32         64         512           1,024         2,048         4,096         16,384           2Gbps         4Gbps         8Gbps         20Gbps           4,094         4,094         4,094         4,094           n/a         2 SFP         8 (combo)         2 (combo)           4         16         8 (combo)         2 (combo)           0         0         0         0         0           11         2         1         None           Compact         1RU         1RU         1RU           16,384         32,768         65,536         2,015,291           512         1,024         2,048         16,384           1.2Gbps         2.4Gbps         2.4Gbps         10Gbps           2.2Gbps         3.6Gbps         4.4Gbps         6Gbps           n/a         n/a         n/a         Yes           16.6 watts (with USB); can be powered by PoE         190 watts (with PoE); May         55 watts         110W           802.11 a/b/g/	Campus and branch         Headquarters, high density campus of           16         32         64         512         1,024           16         32         64         512         1,024           1,024         2,048         4,096         16,384         24,576           2Gbps         4Gbps         8Gbps         20Gbps         40Gbps           4,094         4,094         4,094         4,094         4,094           n/a         2 SFP         8 (combo)         2 (combo)         2 (combo)           4         16         8 (combo)         2 (combo)         2 (combo)           0         0         0         0         0         0           1         2 (max 150W)         0         0         0         0           1         2         1         None         None         None           Compact         1RU         1RU         1RU         1RU         1RU         1RU           16,384         32,768         65,536         2,015,291         2,015,291         2,015,291           12Gbps         2,4Gbps         2,4Gbps         10Gbps         30Gbps         2,2Gbps           1,2Gbps         3,6Gbps         4,4	Campus and branch         Headquarters, high density campus or large enterprise           16         32         64         512         1,024         2,048           16         32         64         512         1,024         2,048           1.024         2,048         4,096         16,384         24,576         32,768           2Gbps         4Gbps         8Gbps         20Gbps         40Gbps         40Gbps           4,094         4,094         4,094         4,094         4,094           1/0         2 SFP         8 (combo)         2 (combo)         2 (combo)         2 (combo)           0         0         0         4 SFP+         4 SFP+         4 SFP+           0         12 (max 150W)         0         0         0         0           1         2         1         None         None         None           Compact         1RU         1RU         1RU         1RU         1RU           16.384         32,768         65,536         2,015,291         2,015,291         2,015,291           512         1,024         2,048         16,384         24,578         32,768           1.2Gbps         3.6Gbps         4.4Gbps	Campus and branch         Headquarters, high density campus or large enterprise         O           16         32         64         512         1,024         2,048         16           16         32         64         512         1,024         2,048         16           1,024         2,048         4,096         16,384         24,576         32,768         512           2Gbps         4Gbps         8Gbps         20Gbps         40Gbps         40,094         2,048         128           1,024         2,048         4,094         4,094         4,094         4,094         2,058         40,094         128           1,034         2,05P         8 (combo)         2 (combo)         2 (combo)         2 (combo)         0         0           1         16         8 (combo)         2 (combo)         2 (combo)         0         0         0         0           0         12 (max 150W)         0         0         0         0         0         4 SFP+         0           1         2         1         None         None         None         4         1           10         12 (max 150W)         0         0         0         0         <	Campus and branch         Headquarters, High density campus or large enterprise         Campus and branch           16         32         64         512         1.024         2.048         16         32           16         32         64         512         1.024         2.048         16         128           1.024         2.048         4.096         16,384         24.576         32,768         512         2.048           2Cbps         4Gbps         8Gbps         20Cbps         40Gbps         40Gbps         2Gbps         3Gbps           4.094         4.094         4.094         4.094         4.094         4.094         1.024         2.048           16         8 (combol)         2 (combol)         2 (combol)         2 (combol)         6         4           16         0         0         4 SFP+         4 SFP+         4 SFP+         0         0           1         2         1         None         None         None         4         0           1         2         1         None         None         None         4         0           1         2         1         None         None         1         2         10	Campus and branch         Headquarters, help density campus or large enterprise         Campus and branch           16         32         64         512         1.024         2.048         16         32         64           16         32         64         512         1.024         2.048         16         128         256           1.024         2.048         4.096         16,384         24,576         32,769         512         2.048         4.096           2.6bps         4.6bps         8.6bps         2.05bps         4.06bps         4.094         2.256         4.6bps           4.094         4.094         4.094         4.094         4.094         2.256         4.6bps         4.6bps           1.0         2.5FP         8.(combo)         2.(combo)         2.(combo)         2.(combo)         0         4         4           0         0         0         4.5FP         4.5FP         0         0         0         0         0         1	Campus and branch         Headquarters, high-density campus or large enterprise         Campus and branch         Headquarters           16         52         64         512         1.024         2.048         16         52         64         229           16         32         64         512         1.024         2.048         16         128         2.56         512           1.024         2.048         4.096         16.384         24576         32.769         512         2.048         4.096         8.192           2.05ps         4.05ps         8.05ps         2.00ps         4.05ps         2.00ps         4.05ps         512         2.048         4.096         8.192           4.094         4.094         4.094         4.094         2.00mbol         2.00mbol         2.00mbol         6         4         4         4           0         0         0         4.57P+         4.57P+         4.57P+         0

# Access Points and Instant Access Points

The Dell W-Series controller-based ecosystem is ideal for enterprises that require maximum security, functionality and centralized management features. This architecture can enforce policies and security from one console and meets stringent government and military encryption certifications. Controller-based ecosystems can also serve as a termination point for your VPN.

Dell W-Series Instant Access Points (IAPs) combine enterprise capabilities with entry-level simplicity. These intelligent devices have a built-in virtual controller and firewall, and require no additional licenses. IAPs can be set up in minutes: simply configure the first device and the other IAPs automatically form

			80	)2.11ac		802.11n				
Models										
		W-AP274 and W-AP275 W-IAP274 and W-IAP275	W-AP224 and W-AP225 W-IAP224 and W-IAP225	W-AP214 and W-AP215 W-IAP214 and W-IAP215	W-AP204 and W-AP205 W-IAP204 and W-IAP205	W-AP134 and W-AP135 W-IAP134 and W-IAP135	W-AP114 and W-AP115 W-IAP114 and W-IAP115	W-AP104 and W-AP105 W-IAP104 and W-IAP105	W-AP103 and W-IAP103	
Description		Gigabit speeds for the highest number of mobile devices. Ruggedized for outdoor and harsh environments.	Gigabit speeds for the highest number of mobile devices.	Maximize mobile device performance in medium- density, high-performance Wi-Fi environments.	Maximize mobile device performance in medium-density enterprise Wi-Fi environments.	High-performance capacity and density.	Support 50% more throughput and mobile devices than previous-generation APs. High-performance capacity and density.	Mainstream performance capacity and medium density.	Cost-effective coverage an capacity for low to mediun density.	
Radios		Dual radio, 5GHz 802.11ac and 2.4GHz 802.11n	Dual radio, 5GHz 802.11ac and 2.4GHz 802.11n	Dual radio, 5GHz 802.11ac and 2.4GHz 802.11n	Dual radio, 5GHz 802.11ac and 2.4GHz 802.11n	Dual radio, 5GHz and 2.4GHz 802.11n	Dual radio, 5GHz and 2.4GHz 802.11n	Dual radio, 5GHz and 2.4GHz 802.11n	Dual radio, 5GHz and 2.4GH: 802.11n	
	5GHz	1.3Gbps	1.3Gbps	1.3Gbps	867Mbps	450Mbps	450Mbps	300Mbps	300Mbps	
Max data rate 2.4GHz		600Mbps	600Mbps	450Mbps	450Mbps	450Mbps	450Mbps	300Mbps	300Mbps	
Operating mode	Controller-managed AP operating in campus, remote mode, Instant AP running InstantOS Capable of part-time or dedicated air monitoring, the spectrum analyzer remotely scans the 2.4GHz and 5GHz radio bands to identify sources of RF interference.									
Number of BSSIDs per radio		Up to 16	Up to 16	Up to 16	Up to 16	Up to 16	Up to 8	Up to 8	Up to 16	
Max IPSEC encrypted wired throughput (remote mode)		20Mbps	100Mbps	20Mbps	20Mbps	40Mbps	20Mbps	15Mbps	10Mbps	
Minimum controller software version		6.4.0.1	6.3.0.0	6.4.2.0	6.4.1.0	6.1.1.0	6.3.1.0	W-AP104: 6.1.3.0, W-AP105: 5.0.2.1	6.4.0.1	
Minimum Instant software version		4.1.0.0	4.0.0.1	4.1.1.0	4.1.1.0	2.0.0.3	4.0.0.0	2.0.0.3	4.1.0.0	
RF management	t		Adaptive Radio Mar	agement™ (ARM) provides dynamic	, application-aware channel manag	ement to maximize network capacity	and ensure fairness in bandwidth	n availability per user.		
Integrated antennas		3x 2.4 and 5GHz omni (W-AP275/W-IAP275)	Omni downtilt (W-AP225/W-IAP225)	6x omni downtilt (W-AP215/W-IAP215)	4x omni downtilt (W-AP205/W-IAP205)	Omni downtilt (W-AP135/W-IAP135)	6x omni downtilt (W-AP115/W-IAP115)	4x omni downtilt (W-AP105/W-IAP105)	2x omni downtilt	
RF connectors		6x Nf (W-AP274/W-IAP274)	3x RP-SMA, dual-band (W-AP224/W-IAP224)	3x RP-SMA, dual-band (W-AP214/W-IAP214)	2x RP-SMA, dual-band (W-AP204/W-IAP204)	3x RP-SMA, dual-band (W-AP134/W-IAP134)	3x RP-SMA, dual-band (W-AP114/W-IAP114)	4x RP-SMA (W-AP104/W-IAP104)	n/a	
Network interfac	ces	2x GbE	2x GbE	1x GbE	1x GbE	2x GbE	1x GbE	1x GbE	1x GbE	
Jumbo frame su	ipport on uplink	Yes	Yes	Yes	Yes	No	No	No	No	
Other interfaces		Console Port micro-USB	12VDC (optional power adapter) Console Port RJ-45	12VDC (optional power adapter) Console Port RJ-45	12VDC (optional power adapter) Console Port RJ-45	12VDC (optional power adapter) Console Port RJ-45	12VDC (optional power adapter) Console Port RJ-45	12VDC (optional power adapter) Console Port RJ-45	12VDC (optional power adapter) Console Port Header	
Power over Ethernet (PoE) interfaces		POE-PD: 802.3at POE-PS: No	POE-PD: 802.3at/af POE-PS: No	POE-PD: 802.3at/af POE-PS: No	POE-PD: 802.3af POE-PS: No	POE-PD: 802.3af POE-PS: No	POE-PD: 802.3at/af POE-PS: No	POE-PD: 802.3af POE-PS: No	POE-PD: 802.3af POE-PS: No	
Power consumption		23W	15W, plus up to 2.5W for attached USB device	Maximum (worst-case) power consumption: 14.9W (PoE) or 13.6W (DC) Maximum (worst-case) power	Maximum (worst-case) power consumption: 12.5W (PoE) or 11.7W (DC) Maximum (worst-case) power	15W (maximum)	Without USB device connected: 13W With USB device: 15.5W	12V DC, 1.25A 12.5W (maximum)	9.5W (POE) or 8W (DC)	
	Class	Outdoor	Indoor, plenum-rated	Indoor, plenum-rated	Indoor, plenum-rated	Indoor, plenum-rated	Indoor, plenum-rated	Indoor, plenum-rated	Indoor	
Environmental	Operating temp.	Temperature: –40° to +65° C (–40° to +150° F) Humidity: 5% to 95% non- condensing	Temperature: 0° to 50° C (32° to 122° F) Humidity: 5% to 95% non- condensing	Temperature: 0° to 50° C (32° to 122° F) Humidity: 5% to 95% non- condensing	Temperature: 0° to 40° C (32° to 104° F) Humidity: 5% to 95% non- condensing	0° to 50° C (32° to 122° F)	Temperature: 0° to 50° C (32° to 122° F) Humidity: 5% to 95% non- condensing	0° to 50° C (32° to 122° F)	Temperature: 0° to 40° C (32° to 104° F) Humidity: 5% to 95% non- condensing	
Accessories			1	Vall mount brackets, ceiling tile rail	adapters, AC power adapters and a	ttachable antennas sold separately.	See Dell W-Series Antenna Matri	x)		
Hardware Warranty		Extended lifetime warranty								

# Access Points and Instant Access Points

		nt Access Points	prises that require maximum securit	y functionality and centralized m	nanagement features. This architecture c	an enforce policies and security	from one console and meets st	ingent government and militan
			serve as a termination point for you		lanagement leatures. This architecture c	an enforce policies and security		ingent government and military
Dell W-Series Ins the other IAPs as remote APs for t	utomatically for	m a unified cluster. Add capacity k	abilities with entry-level simplicity. T by plugging in more IAPs. The device	hese intelligent devices have a bu s can even migrate to a controlle	ilt-in virtual controller and firewall, and re r-based ecosystem to expand to a centra	equire no additional licenses. IAPs lized wireless network. The IAP p	s can be set up in minutes: simply ortfolio includes several wired ar	configure the first device and d wireless IAPs that are ideal for
					802.11n			
			antilitiitiitiite.					
Models						6		
		W-AP92 and W-AP93 W-IAP92 and W-IAP93	W-AP103H	W-AP93H	W-AP175AC, W-AP175P W-IAP175AC and W-IAP175P	W-IAP108 and W-IAP109 (Remote IAPs)	W-IAP155 and W-IAP155P	W-IAP3WN and W-IAP3WNP
Description		Entry-level, single radio access point with dual band functionality.	Wall-plate mountable Hospitality AP with Ethernet ports, provide wired and wireless connections in one device.	Wall-plate hospitality AP with additional Ethernet ports, provide wired and wireless connections in one device.	Ruggedized and weatherproof for outdoor, warehouses and harsh environments.	High-performance wireless and wired networking for branch offices, hotspots and teleworkers.	Desktop AP with additional Ethernet ports to create a small LAN or connect PoE devices. Ideal for small branch offices, hotspots and remote offices/teleworkers.	Desktop AP with additional Ethernet ports to create a small LAN or connect PoE devices. Ideal for remote home offices/teleworker.
Radios		Single radio: 2.4 or 5GHz band	Dual radio, 5GHz and 2.4GHz 802.11n	Single radio: 2.4 or 5GHz band	Dual radios: 2.4 and 5GHz band	Dual-radio, dual-band 802.11n	Dual radio, dual-band 802.11n	Single radio: 2.4GHz band
	5GHz	300Mbps	300Mbps	300Mbps	300Mbps	300Mbps	450Mbps	n/a
Max data rate	2.4GHz	300Mbps	300Mbps	300Mbps	300Mbps	300Mbps	300Mbps	300Mbps
Operating modes Controller-managed AP operating in campus, remote mode, Instant AP running InstantOS Capable of part-time or dedicated air monitoring, the spectrum analyzer remotely scans the 2.4GHz and 5GHz radio bands to identify sources of RF interference.					sources of RF interference.			
Number of BSSIDs per radio		Up to 8	Up to 8	Up to 8	Up to 8	Up to 16	Up to 16	Up to 8
Max IPSEC encrypted wired throughput		10Mbps	10Mbps	10Mbps	15Mbps	20Mbps	100Mbps	20Mbps
Minimum controller software version		5.0.4.2	6.4.1.0	6.1.3.0	5.0.2.1	6.2.0.0	6.3.0.0	6.1.4.0
Minimum Instant software version		n/a	n/a	n/a	2.0.0.3	3.2.0.0	3.3.0.1	3.0.0.0
RF management	t	Ad	aptive Radio Management™ (ARM) p	provides dynamic, application-awa	are channel management to maximize ne	etwork capacity and ensure fairne	ess in bandwidth availability per u	ser.
Integrated antennas		2x internal omni (W-AP93/W-IAP93)	2x omni	2x omni	n/a	4x omni (W-IAP109)	5x omni	2x omni
RF connectors		n/a	n/a	n/a	4x Nf	2x RP-SMA, dual-band (W-IAP108)	n/a	n/a
Network interfaces		1x GbE	1x GbE + 2x FE + 1x passthrough RJ-45	1x GbE + 4x FE + 1x passthrough RJ-45	1x GbE	1x GbE + 1x FE	5x GbE	3x FE
Jumbo frame support on uplink		No	No	No	No	No	No	No
Other interfaces		12VDC (optional power adapter) Console Port RJ-45	12VDC (optional power adapter) Console Port Header	12VDC (optional power adapter) Console Port RJ-45	Console Port USB Type-A	12VDC (optional power adapter) Console Port RJ-45 USB Host Port	W-IAP155: 12VDC (power adapter in-box) W-IAP155P: 54VDC (power adapter in-box, order power cord separately) Console Port Header USB Host Port	W-IAP3WN: 12VDC (power adapter in-box) W-IAP3WNP: 48VDC (power adapter in-box, order power cord separately) Console Port Header USB Host Port
Power over Ethernet (PoE) interfaces		POE-PD: 802.3af POE-PS: No	POE-PD: 802.3af POE-PS: No	POE-PD: 802.3af POE-PS: No	W-AP175P and W-IAP175P: POE-PD: 802.3at POE-PS: No W-AP175AC and W-IAP175DC: POE-PD: No POE-PS: 802.3af	POE-PD: 802.3af/at POE-PS: No	POE-PD: No POE-PS: W-IAP155P 1x 802.3at or 2x 802.3af	POE-PD: No POE-PS: W-IAP3WNP 1x 802.3af
Power consumption		10W (maximum)	9.4W (POE) or 8.3W (DC)	9W (maximum)	18W (maximum)	Without USB device connected: 12.5W With USB device: 15W	Without USB device connected: 17.5W With USB device: 20W When sourcing POE power	W-IAP3WN: 4 watts/6.5 watts W-IAP3WNP: 5.5, 8, or 26 watts
	Class	Indoor, plenum-rated	Indoor	Indoor	Outdoor	Indoor	Indoor	Indoor
Environmental	Operating temp.	0° to 50° C (32° to 122° F)	Temperature: 0° to +40° C (+32° to +104° F) Humidity: 5% to 95% non- condensing	0° to 40° C (32° to 104° F)	W-IAP175P: -30° to 60° C (-22° to 140° F) W-IAP175AC and W-IAP175DC: -40° to 55° C (-40° to 131° F)	Temperature: 0° to 40° C (32° to 104° F) Humidity: 5% to 95% non- condensing	Temperature: 0° to 40° C (32° to 104° F) Humidity: 5% to 95% non- condensing	0° to 40° C (32° to 104° F)
Accessories			W	all mount brackets, ceiling tile rai	l adapters, AC power adapters and attac	hable antennas sold separately.		
Hardware Warrar	nty		Extended lifetime warranty		One year parts and labor		Extended lifetime warranty	

(D¢LL)

### Network management

### AirWave Management System (AWMS)

Use Dell's multi-vendor network management software for a consolidated view of the RF environment, controllers, APs, and the wired infrastructure, with an intuitive user interface. AirWave can manage all Dell W-Series wireless products and provide visibility and troubleshooting for your existing vendor networks.

### Easy-to-use web interface

- Role-based access, viewing rights and administrative privileges tailored to job responsibilities.
- Custom graphs of key information allow for pan and zoom for visibility into specific periods of time.
- Identify and search for users by user name.
- Client overview summarizes the types of clients attached to the network and provides visibility into watched or VIP clients.
- Multiple dashboard views provide visibility into every aspect of the wireless network.

### Device discovery

- Automatically discovers WLAN infrastructure devices.
- Operates in any network environment, including large distributed networks with multiple locations.

### Troubleshooting and diagnostics

- Collects and displays client device data from Dell W-Series ClearPass Policy Manager, including device type, operating system, OS details, manufacturer and model.
- Client search by user name or MAC address provides a diagnostic view of devices as well as network statistic indicators to evaluate overall health and performance.
- Overlay feature helps diagnose issues specific to a client or to a specific area on a floor plan.
- Advanced RF troubleshooting to easily diagnose RF issues in the network.

### Real-time monitoring and visibility

- Automatically tracks every user and device wireless and remote on the network.
- Provides visibility into the wired infrastructure that connects wireless controllers and APs.
- Provides visibility into clients associated to network including location, SNR, connection speed and more.
- Logs and displays radio and RADIUS errors, including noise floor and channel utilization information.
- Provides rapid drill-down from network-wide to device-level monitoring views.
- Dashboards track RF performance, capacity and application-level statistics as well as network deviations over a 40-week period.

# Wired: 20 Wired: 20 Wired: 21 Wired: 20 Wired: 20 Wired: 20 Wired: 20 Planatched: 193 Plague: 1734 Clients: 565 Netris: 88

## User access management

## ClearPass Access Management System

This highly integrated access management solution enables employees, guests and bring your own device (BYOD). The Dell ClearPass device connects to your existing network to securely onboard devices, admit users, display usage, perform health assessments and manage policies while maintaining appropriate security and service levels. Its self registration portal frees your IT staff from the manual setup process. ClearPass models are designed to accommodate from 500 to 25,000 concurrent users/devices.

Enterprise-grade security with high availability	Model	Details		
- Unique username and password per user	ClearPass 25,000	Up to 25,000 concurrent users/devices		
- Integrated RADIUS database for guest and	ClearPass 5,000	Up to 5,000 concurrent users/devices		
device accounts	ClearPass 500	Up to 500 concurrent users/devices		
<ul> <li>Role-based access controls</li> <li>Assign different access-level privileges based on user type</li> </ul>	ClearPass Modules	Licensing options: Guest, OnBoard, OnGuard for Advanced Policy Management		
<ul> <li>Print template and SMS integration delivers wireless security keys out-of-band to ensure scalable and encrypted guest access</li> <li>Customization</li> </ul>	<ul> <li>ClearPass is available as a hardware appliance or as software only (Virtual machine for VMware<sup>™</sup>).</li> <li>Licenses for these modules are available in different quantities to support deployment scale.</li> </ul>			

- Branding unique skin technology delivers a fully customized, corporate – branded user experience

- Advertising services Advanced content delivery platform for next-generation hotspots. Easily monetizes Wi-Fi access in public access environments using business intelligence data collection and demographic-targeted advertising delivery
- Visitor intelligence Self-registration collects data about guest preferences and experiences. Intelligent labeling enables matched content delivery
- Seamless integration with third-party multivendor hardware and software

### Intuitive, easy to use interface

- Enables reception staff and non-technical personnel to manage guest accounts and configure self-provisioning captive portals

- Visitor management Create and modify temporary user accounts; delete or set accounts to automatically expire
- Self-registration Guests and employees can register for access through a customizable web interface

# Learn More at Dell.com/Wireless

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