

AP325 INDOOR ACCESS POINT

2x2:2 MU-MIMO, 802.11ac Wave 2 support

2 Gigabit Ethernet ports, 6 integrated antennas, PoE+ power

Secure your business with the latest 802.11 Wave 2 technology that meets your budget needs. The AP325 from WatchGuard is an indoor access point and comes equipped with Multi-User MIMO (MU-MIMO) connecting multiple devices at the same time – enhancing your secure Wi-Fi experience. This access point also offers dual concurrent 5 GHz and 2.4 GHz band radios supporting 802.11a/n/ac Wave 2, 802.11b/g/n, two spatial streams, and data rates of up to 867 Mbps and 300 Mbps, respectively. Common use cases include medium-density environments such as K-12 schools, small and midsize businesses, distributed office spaces, small-footprint retail, small meeting rooms, restaurants, and healthcare offices.

"The new AP325 is a very cost-effective Wave 2 AP that fits my network's needs for fast and secure Wi-Fi access perfectly. I've found the AP325 to be rock-solid in wireless connectivity, and the easy cloud-based management enabled me to add WIPS security protection without hassle."

~ Bob Sampson, Head of IT Wrest Park Ltd

UNIQUELY EFFECTIVE APPROACH TO SECURITY

The AP325 supports the only Wireless Intrusion Prevention System (WIPS) in the industry with high accuracy in classifying access points and client devices, properly enabling automatic prevention of Wi-Fi threats and keeping a network protected from wireless man-in-the middle attacks, evil twins, honeypots, and more.

FLEXIBLE MANAGEMENT OPTIONS

You can manage the AP325 with either a Firebox[®], via the Gateway Wireless Controller and receive a lightweight feature set, or with WatchGuard's Wi-Fi Cloud.

With the Wi-Fi Cloud you get an expanded set of features including patented security, marketing tools, and location-based analytics for optimal business insights. IT pros can also enjoy an entirely controller-less Wi-Fi management experience including setup, configuration, monitoring, troubleshooting, and improved corporate and guest Wi-Fi access, without worrying about the limitations of legacy controller infrastructure. Wi-Fi Cloud environments easily scale from one to an unlimited number of access points across multiple locations. Access points can be grouped in many ways including location, building, floor, and customer to maintain consistent policies.

PERFORMANCE WITHOUT COMPROMISE

By incorporating the latest 802.11ac Wave 2 standards, you'll have speeds of up to 867 Mbps over the air, without sacrificing security. With MU-MIMO, you get faster user experience, serving multiple devices (smartphones, tablets, laptops) at the same time, so more clients can utilize the network more efficiently.

FEATURES & BENEFITS

- Wave 2 chipset offers the latest MU-MIMO technology to serve today's medium-density environments
- AP325 takes less than two minutes to activate and configure after connecting to the Wi-Fi Cloud
- Support for up to eight individual SSIDs per radio allows for maximum flexibility in network design
- Smart steering automatically pushes clients with low speeds to a closer access point*
- Band steering manages spectrum efficiency, pushing clients to 5 GHz channels for optimal throughput
- AP325 continues to scan for wireless threats and enforces security policy even if the connection with the Wi-Fi Cloud is interrupted*

WitchGuard AP323

DATASHEET



PHYSICAL SPECIFICATIONS					
	Property		Specification		
	Physical Dimensions 19		196mm X 196mm X	196mm X 196mm X 43mm	
	Weight		850g (1.87lb)		
WatchGuard AP325	Operating	Temperature	0°C – 45°C (32°F to 113°F)		
	Storage Ter	mperature	-20°C – 65°C (-4°F –	20°C – 65°C (-4°F – 149°F)	
	Humidity		5% to 95% non-con	densing	
· · · · · · · · · · · · · · · · · · ·	Processor a	and RAM		ualcomm IPQ4028 717 MHz quad-core ARM processor th 256 MB RAM and 64 MB Flash	
	Port	Description	Connector Typ	e Speed/Proto	ocol
	Reset	Reset to factory default settings	Pin hold push b	Hold down a the device to	and power cycle o reset
	Power	12V DC/802.3at (PoE+)	3.5mm overall diameter/1.35n center pin/hole		
	LAN2	Gigabit Ethernet port that can be used for wired extension for an SSID	t RJ-45	10/100/1000 Ethernet) Mbps Gigabit
Image: Second	LAN1/PoE	Gigabit Ethernet port use to connect to the wired LAN and communicate with the WatchGuard Wi- Cloud or Server. This port can also be used to powe the device using the 802 (PoE+)/802.3af (PoE) standard (limited functionality).	Fi RJ-45	Ethernet 802.3af/at CI PoE input vo If using PoE (• USB poi port dis • 2.4 GHz mode v trans- m • 5 GHz r with 18	(802.3af): rt and LAN2



AP325

WI-FI SPECIFICATIONS — Frequency, Modulation, and Data Rates				
IEEE 802.11b/g/n				
	Scanning Transmission			
Frequency Band	All regions	USA & Canada (FCC/IC)	Europe (ETSI)	Egypt (NTRA)
	2400 ~ 2483.5 MHz	2400 ~ 2473.5 MHz	2400 ~ 2	2483.5 MHz
Modulation Type	DSSS, OFDM			
Peak Data Rates	Up to 300 Mbps (MCS 0-15)			
Antenna	Integrated modular high efficiency PIFA antenna x4 (x2 per band)			

IEEE 802.11a/n/ac					
Frequency Band	Scanning		Transmission		
	All regions	Egypt (NTRA)	USA & Canada (FCC/IC)	Europe (ETSI)	Egypt (NTRA)
	4.92 ~ 5.08 GHz				
	5.15 ~ 5.25 GHz		5.15 ~ 5.25 GHz	5.15 ~ 5.25 GHz	
	5.25 ~ 5.35 GHz	5.150-5.350 GHz	5.25 ~ 5.35 GHz	5.25 ~ 5.35 GHz	5.150-5.350 GHz
	5.47 ~ 5.725 GHz		5.725 ~ 5.825 GHz	5.47 ~ 5.725 GHz	
	5.725 ~ 5.825 GHz				
Dynamic Frequency Selection	DFS and DFS2				
Modulation Type	OFDM				
Peak Data Rates	Up to 867 Mbps (MCS 0-15)				
Antenna	Integrated modular high efficiency PIFA antenna x4 (x2 per band)				

Physical Specifications		
Antenna	Internal PIFA 2x2.4 GHz (2.5 dBi peak gain) 2x5 GHz (3.5 dBi peak gain) 2x2 dual band third radio (non-access)	
Ethernet Ports	2 Gigabit Ethernet ports with RJ45 connector type. One port to connect to the wired LAN and communicate with the WatchGuard Wi-Fi Cloud. This port can also be used to power the device using the 802.3at (PoE+)/802.3af (PoE) (limited functionality). Second port can be used for aggregation or wired extension of an SSID.	
Reset	Pinhole push button	
LEDs	Power, LAN1, LAN2, 2.4 GHz, 5 GHz 1, 5 GHz 2	



Operational Specifications		
Input Power	12V DC/1.5A (3.5mm overall diameter/1.35mm center pin/hole)/802.3at (PoE+)/802.3af (PoE) (limited functionality)	
Number of Radios	3 WiFi Radios: One 2.4 GHz and 5 GHz radio each for simultaneous dual band client access. A third dual-band radio dedicated to non-access smart scanning; WIPS, RF optimization, remote troubleshooting, and network assurance functions.	
MIMO	2x2 for 2.4/5GHz Radios	
Number of Spatial Streams	2 for 2.4/5GHz Radios	
RF Transmit Power	20 dBm per radio chain (max); Actual power for Tx will depend on Country Regulatory Domain	
Power Consumption	Max: 16W Min: 6.5W Average: 13.8W	
Simultaneous MU-MIMO Clients	Two 1x1 MU-MIMO clients	
Users in a MU-MIMO group with a 2x2 client	1	
Bandwidth Agility	Yes	
Dynamic Frequency Selection	Supported in compliance to all latest amendments from FCC, CE, IC, CB, TELEC, KCC regarding certifications.	



Maximum Aggregate Transmit Power

For 2.4GHz			
MCS Index	Transmit Power(dBm)		
	802.11b		
1Mbps - 11 Mbps	21		
	802.11g		
6 Mbps – 48 Mbps	21		
54 Mbps	20		
80	802.11n HT20		
MCS 0,1,2,3,4,5	21		
MCS 6	20		
MCS 7	19		
802.11n HT40			
MCS 0,1,2,3,4,5	21		
MCS 6	20		
MCS 7	19		

COUNTRY-WISE MAX TRANSMIT POWERS (DBM)

Countries	2.4GHz	5Ghz
Australia	20	23
Canada	30	23
Egypt	20	23
India	20	20
Israel	20	20
Japan	20	20
UAE	20	17
USA	20	23

For 5GHz		
MCS Index	Transmit Power(dBm)	
	802.11a	
6 Mbps – 48 Mbps	21	
54 Mbps	20	
	802.11n HT20	
MCS 0,1,2,3,4,5	21	
MCS 6,7	20	
	802.11n HT40	
MCS 0,1,2,3,4,5	21	
MCS 6	20	
MCS 7	19	
	802.11n VHT20	
MCS 0,1,2,3,4,5	21	
MCS 6,7	20	
MCS 8	19	
	802.11n VHT40	
MCS 0,1,2,3,4,5	21	
MCS 6,7	20	
MCS 8	18	
MCS 9	17	
802.11n VHT80		
MCS 0,1,2,3,4,5,6,7	19	
MCS 8	18	
MCS 9	17	

Note:

The actual transmit power will be the lowest of:

- Value specified in the Device Template
- Maximum value allowed in the regulatory domain
- Maximum power supported by the radio



Receive Sensitivity

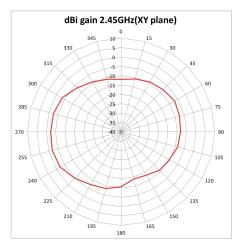
For 2.4GHz	
MCS Index	Receive Sensitivity (dBm)
802.	11g
6 Mbps	-94
24 Mbps	-86
36 Mbps	-83
48 Mbps	-78
54 Mbps	-77
802.11r	ו HT20
MCS 0,8	-93
MCS 1,9	-90
MCS 2 ,10	-88
MCS 3,11	-84
MCS 4,12	-81
MCS 5,13	-77
MCS 6,14	-74
MCS 7,15	-73
802.11r	ו HT40
MCS 0,8	-90
MCS 1,9	-87
MCS 2,10	-85
MCS 3,11	-81
MCS 4,12	-78
MCS 5,13	-74
MCS 6,14	-73
MCS 7,15	-71

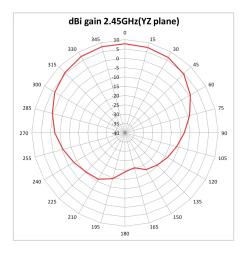
For 5GHz	
MCS Index	Receive Sensitivity (dBm)
802	2.11a
6 Mbps	-93
24 Mbps	-85
36 Mbps	-82
48Mbps	-77
54 Mbps	-76
802.11	n HT20
MCS 0,8	-92
MCS 1,9	-89
MCS 2,10	-86
MCS 3,11	-83
MCS 4,12	-80
MCS 5,13	-76
MCS 6,14	-74
MCS 7	-72
802.11	n HT40
MCS 0,8	-89
MCS 1,9	-86
MCS 2 ,10	-83
MCS 3,11	-80
MCS 4,12	-77
MCS 5,13	-73
MCS 6,14	-62

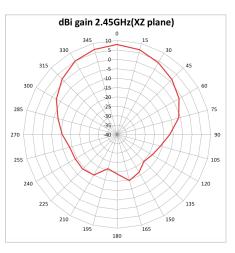
MCS Index	Receive Sensitivity (dBm)
80	02.11n VHT20
MCS 0	-91
MCS 1	-88
MCS 2	-86
MCS 3	-83
MCS 4	-80
MCS 5	-75
MCS 6	-74
MCS 7	-72
MCS 8	-68
80	02.11n VHT40
MCS 0	
MCS 1	
MCS 2	
80	02.11n VHT80
MCS 0	-86
MCS 1	-83
MCS 2	-81
MCS 3	-78
MCS 4	-74
MCS 5	-70
MCS 6	-69
MCS 7	-67
MCS 8	-63

INTERNAL ANTENNA RADIATION PATTERNS

Radiation Pattern for 2GHz Antenna 1





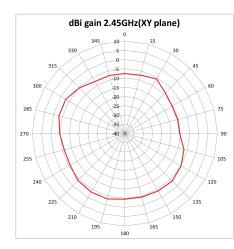


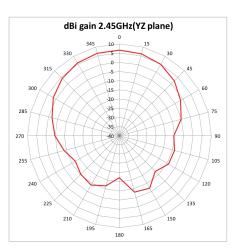
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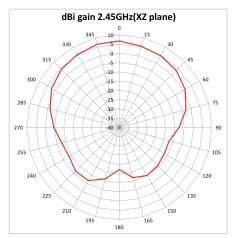


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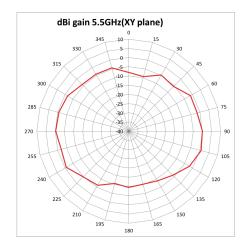
Radiation Pattern for 2GHz Antenna 2

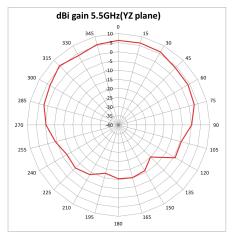


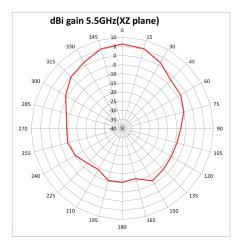




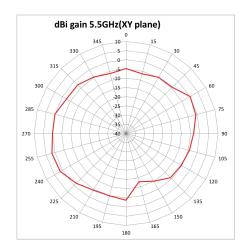
Radiation Pattern for 5GHz Antenna 1

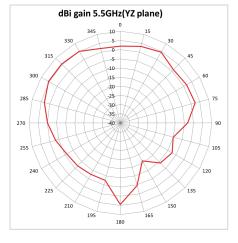


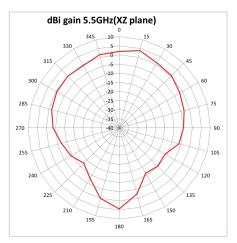




Radiation Pattern for 5GHz Antenna 2











REGULATORY SPECIFICATIONS

RF and Electromagnetic	
Country	Certification
USA	FCC Part 15.247, 15.407
Canada	IC
Europe	CE EN300.328, EN301.893 Countries covered under Europe certification: Austria, Belgium, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Iceland, Luxembourg, Latvia, Lithuania, Malta, Nether- lands, Norway, Poland, Portugal, Spain, Sweden, Slovakia, Slovenia, Switzerland, The Czech Republic, UK.

 Safety

 Country
 Certification

 USA
 UL 60950

 Canada
 cUL 60950

 European Union (EU)
 EN 60950, RoHS



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WATCHGUARD HAS YOU COVERED, INDOORS AND OUT

No matter what your wireless battleground is – remote offices, guest Wi-Fi, corporate access, public hotspots, outdoor environments – WatchGuard has a range of access points to fit your business needs. WatchGuard's Wi-Fi packages allow you to quickly and easily find the right set of features your business needs today...and tomorrow.

WatchGuard Wi-Fi Solution	Total Wi-Fi	Secure Wi-Fi	Basic Wi-Fi
Management Platform	Wi-Fi Cloud	Wi-Fi Cloud	Firebox Appliance*
Scalability Number of managed access points.	Unlimited	Unlimited	Limited**
Configuration and Management SSID configuration with VLAN support, band steering, smart steering, fast roaming, user bandwidth control, Wi-Fi traffic dashboard.	✓	~	~
Additional Wi-Fi Cloud-Based Management Radio Resource Management, Hotspot 2.0, enhanced client roaming, nested folders for configuration before deployment, integration with 3rd party WLAN controllers.	✓	~	
Intelligent Network Visibility and Troubleshooting Pinpoint meaningful network problems and application issues by seeing when an anomaly occurs above baseline thresholds and remotely troubleshoot.	✓	~	
Verified Comprehensive Security A patented WIPS technology defends your business from the six known Wi-Fi threat categories, enabling a Trusted Wireless Environment.	✓	~	
GO Mobile Web App Quickly and easily set-up your WLAN network from any mobile device.	✓	\checkmark	
Guest Engagement Tools Splash pages, social media integrations, surveys, coupons, videos, and so much more.	✓		
Location-Based Analytics Leverage metrics like footfall, dwell time, and conversion to drive business decisions and create customizable reports.	✓		
Support Hardware warranty with advance hardware replacement, customer support, and software updates	Standard	Standard	Standard
Requires Firebox with active support contract. **20 access points recommended for each Firebox model. For the T-15			

*Requires Firebox with active support contract.**20 access points recommende Firebox model 4 access points are recommended.

NO NEED TO RIP AND REPLACE, JUST ADD WIPS

Each WatchGuard access point has the flexibility to operate as both an access point and a dedicated WIPS security sensor. This means that when deployed as dedicated WIPS sensors, the devices work with your existing access points (Cisco, Aruba, Ruckus, Ubiquiti, etc) and add enterprise-grade wireless security protection to your network. In this case, instead of delivering secure Wi-Fi traffic to users, we deliver unprecedented WIPS security protection that is 100% dedicated to scanning the air and protecting your business from wireless threats.

For additional details, talk to your authorized WatchGuard reseller or visit https://www.watchguard.com/wifi

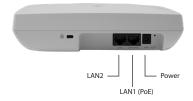
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About WatchGuard Technologies, Inc.

WatchGuard® Technologies, Inc. is a global leader in network security, secure Wi-Fi, and network intelligence products and services to more than 80,000 customers worldwide. The company's mission is to make enterprise-grade security accessible to companies of all types and sizes through simplicity, making WatchGuard an ideal solution for distributed enterprises and SMBs. WatchGuard is headquartered in Seattle, Washington, with offices throughout North America, Europe, Asia Pacific, and Latin America. To learn more, visit WatchGuard.com.

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