

DATA SHEET



BENEFITS

CONNECT MORE DEVICES SIMULTANEOUSLY

Improve device performance, by enabling more simultaneous device connections with built-in 8 spatial streams (4x4:4 in 5GHz, 4x4:4 in 2.4GHz), MU-MIMO and OFDMA technology.

HIGH DENSITY PERFORMANCE

Provides exceptional end-user experience within large meeting halls, general enterprise spaces, and large classrooms with the Access Networks Ultra-High-Density Technology Suite.

CONVERGED ACCESS POINT

Allows customers to eliminate siloed networks and unify WiFi and non-WiFi wireless technologies into one single network by using built-in BLE and Zigbee, and also expanding to any future wireless technologies through the USB port.

MULTIGIGABIT ACCESS SPEEDS

Optimized multi-gigabit Wi-Fi performance delivered using the built-in 2.5GbE port to connect to multigigabit switches.

MULTIPLE MANAGEMENT OPTIONS

Manage the A750 with on premise physical/ virtual appliances and control auto- provisioning for faster deployment and seamless firmware upgrades.

ENHANCED SECURITY

The latest Wi-Fi security standard with WPA3 and receive enhanced protection from man-in-the-middle attacks in the most secure way. The A750 is based on the latest Wi-Fi 6 standard and bridges the performance gap from 'gigabit' Wi-Fi to 'multi-gigabit' Wi-Fi in support of the insatiable demand for better and faster Wi-Fi. The A750 is the first Wi-Fi 6 AP to be certified by Wi-Fi Alliance as **Wi-Fi CERTIFIED 6**. As part of the Wi-Fi Alliance testbed, the A750 validates other devices for Wi-Fi CERTIFIED 6 interoperability.

The Access Networks A750 is our high-end concurrent dual-band Wi-Fi 6 AP that supports 8 spatial streams (4x4:4 in 5GHz, 4x4:4 in 2.4GHz). The A750, with OFDMA and MU-MIMO capabilities, efficiently manages up to 1024 client connections with increased capacity, improved coverage and performance in ultra-high dense environments.

The A750, with OFDMA, TWT and MU-MIMO capabilities, efficiently manages up to 1024 client connections with increased capacity, improved coverage and performance in ultra-dense environments. Furthermore, multi-gigabit Ethernet ensures the backhaul is not a bottleneck for full use of available Wi-Fi capacity.

Also, wireless requirements within enterprises are expanding beyond Wi-Fi with BLE, Zigbee and many other non-Wi-Fi wireless technologies. Enterprises need a unified platform to eliminate network silos. The Access Networks AP portfolio is equipped to solve these challenges through wireless convergence.

The A750 has built-in IoT radios with onboard BLE and Zigbee capabilities. In addition, the A750 is a converged access point that allows customers to seamlessly integrate any new wireless technologies with our USB port.

The A750 addresses the increasing client demands in transit hubs, auditoriums, conference centers, and other high traffic indoor spaces. It is the perfect choice for data-intensive streaming multimedia applications like 4K video transmissions, while supporting latency sensitive voice and data applications with stringent quality-of-service requirements. The A750 is also easy to manage through Access Networks C120 or Unleashed management options.

The A750 when paired with the Access Networks Ultra-High-Density Technology Suite found only in the Access Networks Wi-Fi portfolio, dramatically improves network performance through a combination of patented wireless innovations and learning algorithms that includes:

- **Airtime Decongestion:** Increases average network throughput in heavily congested environments
- **Transient Client management:** Reduces interference traffic from unconnected Wi-Fi devices
- **BeamFlex+ Antennas:** Extended coverage and optimized throughput with patented multi-directional antennas and radio patterns

Whether you are deploying ten or ten thousand APs, the A750 is also easy to manage through Access Networks' C 120 or Unleashed management options.



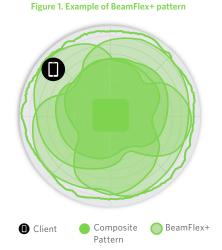
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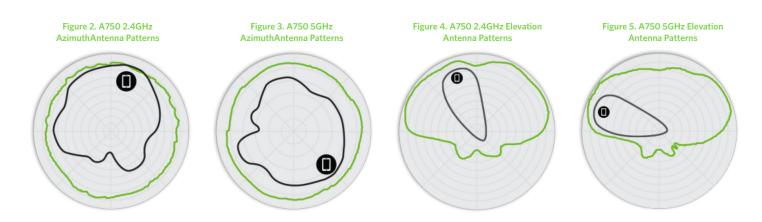
ACCESS POINT ANTENNA PATTERN

Access Networks' BeamFlex+ adaptive antennas allow the A750 AP to dynamically choose among a host of antenna patterns (over 4,000 possible combinations) in real-time to establish the best possible connection with every device. This leads to:

- Better Wi-Fi coverage
- Reduced RF interference

Traditional omni-directional antennas, found in generic access points, oversaturate the environment by needlessly radiating RF signals in all directions. In contrast, the Access Networks BeamFlex+ adaptive antenna directs the radio signals per- device on a packet by-packet basis to optimize Wi-Fi coverage and capacity in real- time to support high device density environments. BeamFlex+ operates without the need for device feedback and hence can benefit even devices using legacy standards.





Note: The outer trace represents the composite RF footprint of all possible BeamFlex+ antenna patterns, while the inner trace represents one BeamFlex+ antenna pattern within the composite outer trace.



OvrC[®] Integration for Unleashed Access Networks Wi-Fi 6 Access Points

OvrC is a free, cloud-based remote management platform created by Snap One that empowers professionals to configure, manage, and troubleshoot devices across a network seamlessly. By combining high-performance, reliable hardware with the power of OvrC, the Access Networks[®] Unleashed Wi-Fi 6 Access Points provide a comprehensive solution for your networking needs. Enjoy streamlined setup, easy scalability, enhanced remote management capabilities, and more.

Access Networks Unleashed Wi-Fi 6 Access Points are also now available through the client OvrC Connect app.

A750 Indoor Wi-Fi 6 (802.11ax) Access Point

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WI-FI	
Wi-Fi Standards	IEEE 802/11a/b/g/n/ac/ax
Supported Rates	 802.11ax: 4 to 2400 Mbps 802.11ac: 6.5 to 1732 Mbps 802.11n: 6.5 to 600 Mbps 802.11a/g: 6 to 54 Mbps 802.11b: 1 to 11 Mbps
Supported Channels	 2.4GHz: 1-13 5GHz: 36-64, 100-144, 149-165
мімо	 4x4 SU-MIMO 4x4 MU-MIMO
Spatial Streams	• 4 for both SU-MIMO & MU-MIMO
Radio Chains and Streams	• 4x4:4
Channelization	• 20, 40, 80, 160/80+80MHz
Security	 WPA-PSK, WPA-TKIP, WPA2 AES, WPA3,802.11i, Dynamic PSK, OWE WIPS/WIDS
Other Wi-Fi Features	 WMM, Power Save, Tx Beamforming, LDPC, STBC, 802.11r/k/v Hotspot Hotspot 2.0 Captive Portal WISPr

2.4GHZ TX POWER TARGET (PER CHAIN)		
Rate	Pout (dBm)	
MCS0 HT20	20	
MCS7 HT20	16	
MCS8 VHT20	15	
MCS9 VHT40	14	
MCS11 HE40	12	

5GHZ TX POWER TARGET (PER CHAIN)		
Rate	Pout (dBm)	
MCS0, VHT20	22	
MCS7, VHT40, VHT80	19	
MCS9, VHT40, VHT80	17	
MCS11, HE20, HE40, HE80	15	

PERFORMANCE AND CAPACITY		
Peak PHY Rates	 2.4GHz: 1148 Mbps 5GHz: 2400 Mbps	
Client Capacity	• Up to 1024 clients per AP	
SSID	• Up to 31 per AP	

ACCESS NETWORKS RADIO MANAGEM	ENT
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Antenna Optimization	 BeamFlex+ Polarization Diversity with Maximal Ratio Combining (PD-MRC)
Wi-Fi Channel Management	ChannelFlyBackground Scan Based
Client Density Management	 Adaptive Band Balancing Client Load Balancing Airtime Fairness Airtime-based WLAN Prioritization
SmartCast Quality of Service	QoS-based schedulingDirected MulticastL2/L3/L4 ACLs
Mobility	• SmartRoam
Diagnostic Tools	Spectrum AnalysisSpeedFlex

RF	
Antenna Type	 BeamFlex+ adaptive antennas with polarization diversity Adaptive antenna that provides 4,000+ unique antenna patterns per band
Antenna Gain (max)	• Up to 3dBi
Peak Transmit Power (Tx port/chain + Combining gain)	 2.4GHz: 26dBm 5GHz: 28 dBm
Frequency Bands	 ISM (2.4-2.484GHz) U-NII-1 (5.15-5.25GHz) U-NII-2A (5.25-5.35GHz) U-NII-2C (5.47-5.725GHz) U-NII-3 (5.725-5.85GHz)

2.4GHZ F	RECEIVE SE	NSITIVITY	(dBm)				
нт	20	нт	40	VH.	T20	VHT40	
MCS0	MCS7	MCS0	MCS7	MCS0	MCS7	MCS0	MCS7
-96	-78	-93	-75	-96	-78	-93	-75
HE 20	κ.	s.	s.	HE40		x.	к.
MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11
-96	-78	-73	-67	-93	-75	-70	-64

5GHZ	RECEI	VE SEN	SITIVIT	Ƴ (dBn	n)							
	VH.	Т20			VHT40				VHT80			
MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9	
-98	-80	-77	-	-95	-77	-	-72	-92	-74	-	-69	
HE20				HE40				HE80				
MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11	
-98	-80	-75	-70	-95	-77	-72	-67	-92	-74	-69	-64	

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NETWORKING	
Controller Platform Support	 SmartZone ZoneDirector Unleashed¹ Standalone
Mesh	 SmartMesh[™] wireless meshing technology. Self- healing Mesh
IP	• IPv4, IPv6, dual-stack
VLAN	 802.1Q (1 per BSSID or dynamic per user based on RADIUS) VLAN Pooling Port-based
802.1x	Authenticator & Supplicant
Tunnel	L2TP, GRE, Soft-GRE
Policy Management Tools	 Application Recognition and Control Access Control Lists Device Fingerprinting Rate Limiting
loT Capbale	• Yes

POWER ²		
Power Supply	Operating Characteristics	Max Power Consumption
802.3af PoE	 2.4GHz radio: 2x4, 19dBm per chain 5GHz radio: 2x4, 20dBm per chain 2nd Ethernet port, onboard IoT & USB disabled 	PoE: 12.54W
802.3at PoE+	 Full Functionality 2.4GHz radio: 4x4, 20 dBm per chain 5GHz radio: 4x4, 22 dBm per chain 2nd Ethernet Port, onboard IoT & USB Enabled (3W) 	PoE+ : 22.34W DC Power: 22.69W
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CERTIFICATIONS AND CO	MPLIANCE	

Wi-Fi Alliance ³	 Wi-Fi CERTIFIED[™] a, b, g, n, ac, ax Passpoint[®], Vantage 		
Standards Compliance ⁴	 EN 60950-1 Safety EN 60601-1-2 Medical EN 61000-4-2/3/5 Immunity EN 50121-1 Railway EMC EN 50121-4 Railway Immunity IEC 61373 Railway Shock & Vibration EN 62311 Human Safety/RF Exposure WEEE & RoHS ISTA 2A Transportation 		

PHYSICAL INTERFACES	
Ethernet	 One 2.5Gbps Ethernet port and one 1Gbps Ethernet port Power over Ethernet (802.3af/at/bt) with Category 5/5e/6 cable LLDP
USB	• 1 USB 2.0 port, Type A

PHYSICAL CHARACTERISTICS

Physical Size	 23.5cm (L), 20.6cm (W), 6.2cm (H) 9.3in (L) x 8.1in (W) x 2.4in (H)
Weight	 1.01 kg 2.23 lbs
Mounting	Wall, acoustic ceiling, deskSecure bracket (sold separately)
Physical Security	 Hidden latching mechanism Kensington Lock Hole T-bar Torx Bracket (902-0120-0000) Torx screw & padlock (sold separately)
Operating Temperature	• 0°C (32°F) - 50°C (122°F)
Operating Humidity	Up to 95%, non-condensing

OPTIONAL ACCESSORIES	
902-0180-XX00	• PoE Injector (60W)
902-1170-XX00	• Power Supply (48V, 0.75A, 36W)
902-0120-0000	Spare, Accessory Mounting Bracket
902-0195-0000	Spare, T-bar ceiling mount kit for mounting to flush frame ceiling

PLEASE NOTE: When ordering Indoor APs, you must specify the destination region by indicating -US, -WW, or -Z2 instead of XX. When ordering PoE injectors or power supplies, you must specify the destination region by indicating -US, -EU, -AU, -BR, -CN, -IN, -JP, -KR, -SA, -UK, or -UN instead of -XX.

For access points, -Z2 applies to the following countries: Algeria, Egypt, Israel, Morocco, Tunisia, and Vietnam.

Refer to Unleashed datasheets for SKU ordering information.
 Max power varies by country setting, band, and MCS rate.
 For complete list of WFA certifications, please see Wi-Fi Alliance website.

 $^{\rm 4}\,$ For current certification status, please see price list.

SOFTWARE AND SERVICES Location Based Services SPoT **Network Analytics** SmartCell Insight (SCI) Security and Policy • Cloudpath

ORDERING INFORMATION		
ANW-A750-XX00 ANU-A750-XX00	 A750 dual-band (5GHz and 2.4GHz concurrent) 802.11ax wireless access point, 4x4:4 streams, adaptive antennas, dual ports, onboard BLE and Zigbee, PoE support. Includes adjustable acoustic drop ceiling bracket. One Ethernet port is2.5GbE. Does not include power adaptor. 	

Warranty: This Access Networks product includes a limited lifetime warranty. This warranty is described in greater detail here:

https://www.snapone.com/legal/limited-hardware-warranty