

Araknis Networks Wi-Fi 6 320 Series Indoor Wireless Access Point

AN-320-AP-I



Product Photos



The entry-level Araknis AN-320 Wireless Access Point is an excellent addition for smaller projects, single-family homes, large rooms, and apartments. It features the latest Wi-Fi 6 from Araknis and supports OFDMA, MU-MIMO, 1024 QAM, 80MHz Channel Bandwidth, and BSS Coloring to enhance network capacity and reliability. The AN-320 includes a 2x2 antenna design, supporting peak data rates of up to 1800Mbps at 80MHz channel bandwidth, and a 1Gbps Ethernet LAN port.

Introductory Wi-Fi

This Araknis access point is designed for use with smaller projects that are budget-sensitive but still require leading edge network features.

Fast & Efficient Network

Wi-Fi 6 is the new standard for increased speed, coverage, and capacity. Installing a Wi-Fi 6 access point in your networks can also extend the battery life of Wi-Fi 6-connected devices.

The AN-320's 2x2 antenna provides a more powerful connection for more devices, ensuring your network won't sacrifice speed for size.

Easy Setup with OvrC Wi-Fi Management

Wi-Fi 6 offers high-speed performance, while OvrC Wi-Fi management provides seamless control. Cloud configuration simplifies network setup, management, and troubleshooting across multiple access points from the OvrC app, saving time on manual setup.

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Specs

Wi-Fi	
Peak PHY Rates	2.4GHz: 574Mbps
	5GHz: 1200Mbps
Wi-Fi Standards	IEEE 802.11a/b/g/n/ac/ax
Supported Rates	802.11ax: 8.6 to 1200 Mbps
	802.11ac: 6.5 to 866 Mbps
	802.11n: 6.5 to 400Mbps
	802.11a/g: 6 to 54 Mbps
Frequency Modulation	802.11b: 1 to 11 Mbps
	2.4GHz: Up to 1024-QAM
Supported Channels	5GHz: Up to 1024-QAM
	2.4GHz: 1-13
MIMO	5GHz: 36-64, 149-165
	2x2 SU-MIMO
Spatial Streams	2x2 MU-MIMO
	2 streams SU/MU MIMO 5GHz
Radio Chains and Streams	2 streams SU/MU MIMO 2.4GHz
	2x2:2 (5GHz)
Channelization	2x2:2 (2.4GHz)
	20, 40, 80MHz
OFDMA	Downlink, Uplink
Security	Open, WPA Mixed, WPA-PSK Mixed, WPA2 AES, WPA2-PSK AES, WPA3, WPA3-SAE, WPA3-SAE Mixed
Power Save	STBC, U-APSD
Other Wi-Fi Features	WMM, TX Beamforming, 802.11r/k/v, BSS Coloring, TWT, LDPC

2.4GHz: 23dBm	
Antenna Gain (max)	2.4GHz: Up to 3dBi
	5GHz: Up to 3dBi
Peak Transmit Power	2.4GHz: 23dBm
	5GHz: 25dBm
Frequency Bands	ISM (2.4-2.484GHz)
	U-NII-1 (5.15-5.25GHz)
	U-NII-3 (5.725-5.85GHz)

5GHz TX Power Target (Per Chain)	
Rate (MCS0)	Power Out (dBm)
HE20 CH48	22.5
HE20 CH100	16.5
HE20 CH149	22.5
HE40 CH46	23.5
HE40 CH102	19
HE40 CH151	22.5
HE80 CH58	20.5
HE80 CH106	19
HE80 CH155	21.5

2.4GHz Receive Sensitivity (dBm)							
HT20		HT40		VHT20		VHT40	
MCS0	MCS7	MCS0	MCS7	MCS0	MCS8	MCS0	MCS9
-92	-74	-91	-72	-92	-70	-91	-66
HE20				HE40			
MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11
-92	-74	-67	-62	-90	-71	-65	-59

2.4GHz TX Power Target (Per Chain)	
Rate (MCS0)	Power Out (dBm)
HE20 CH1	22.5
HE20 CH6	24
HE20 CH11	22.5
HE40 CH1	20.5
HE40 CH6	21.5
HE40 CH11	20.5

5GHz Receive Sensitivity (dBm)											
VHT20				VHT40				VHT80			
MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9
-92	-72	-69		-89	-70	-66	-64	-86	-67	-63	-61
HE20				HE40				HE80			
MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11
-92	-72	-67	-61	-89	-68	-64	-58	-86	-67	-61	-56

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Specs

Networking	
IP	IPv4
VLAN	802.1Q (1 per BSSID)
802.1x	Supplicant
Policy Management Tools	Rate Limiting
	L2 Access Control List
	WiFi Scheduler
	Max Client Limit
Other Features	Wireless Client Isolation
	Device Fingerprinting (via OvrC)
	Band Steering
	STP
	SNMP v2/v3
	Site Survey
	Channel Utilization

Physical Interfaces	
Ethernet	1 x 1G BASE-T Ethernet (RJ45)
	Power over Ethernet

Physical Characteristics	
Physical Size	7.33in (L) x 7.33in (W) x 1.56in (H)
	18.61cm (L) x 18.61cm (W) x 3.95cm(H)
Weight	1.32 lbs
	0.60 kg
Mounting	Ceiling
Operating Temperature	0 °C (32 °F) - 50 °C (122 °F)
Operating Humidity	Up to 90% non-condensing
Storage Temperature	-30 °C (-22 °F) - 70 °C (158 °F)

Performance and Capacity	
Measured Throughput	2.4Ghz: 408Mbps
	5Ghz: 935Mbps
Client Capacity	Up to 254 clients per AP
SSID	Up to 9 SSID Per Radio including Guest Wi-Fi (Total 18 SSIDs)

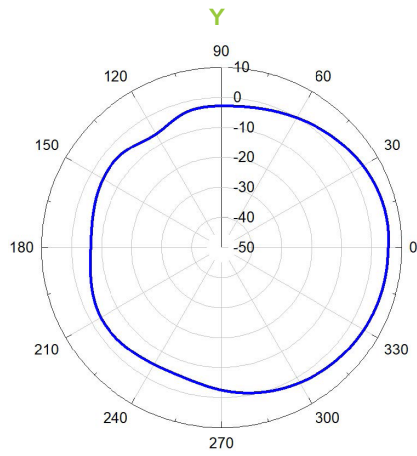
Power Consumption		
Power Supply	Operating Characteristics	Max Power Consumption
802.3bt (PoE+)	Full Functionality	14.28W
802.3at (PoE)	2.4Ghz Radio 1x1	11.26W
	2nd Ethernet Port Disabled	

Certifications and Compliance	
Wi-Fi Alliance	Wi-Fi 6 CERTIFIED a, b, g, n, ac, ax
	Agile Multiband (MBO)
	WMM
	WPA/WPA2/WPA3
Standards Compliance	IEC 60950-1, IEC 62368-1 3rd
	FCC DFS, IC DFS, CE DFS, AS DFS

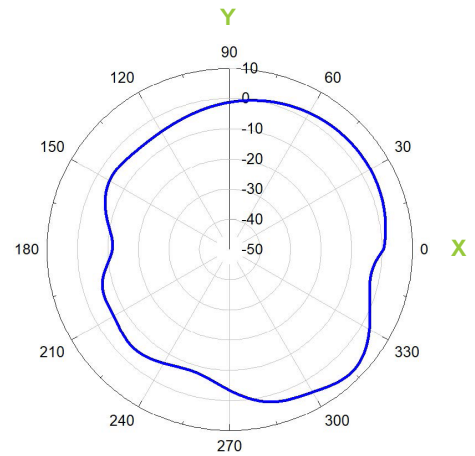
Warranty	
2-Year Limited Warranty	Araknis Networks products have a 2-Year Limited Warranty. This warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products which have been abused, modified, or disassembled. Products to be repaired under this warranty must be returned to Snap One or a designated service center with prior notification and an assigned return authorization number (RA).

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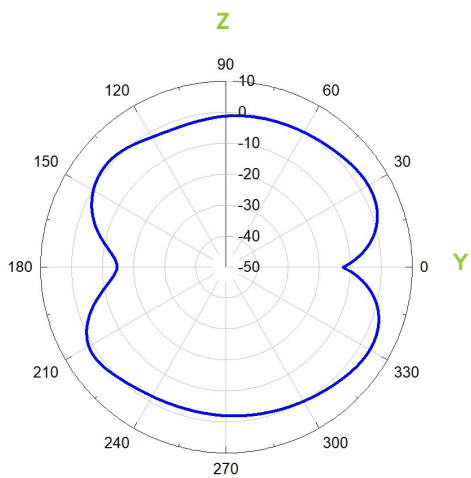
Propagation Patterns



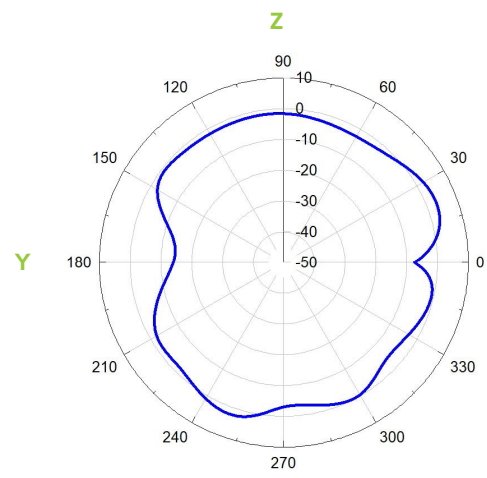
XY 2.45 GHz



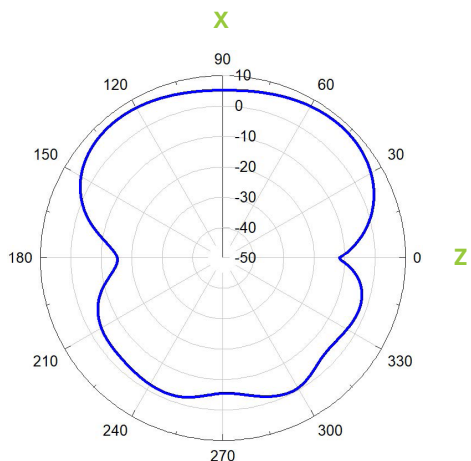
XY 5.5GHz



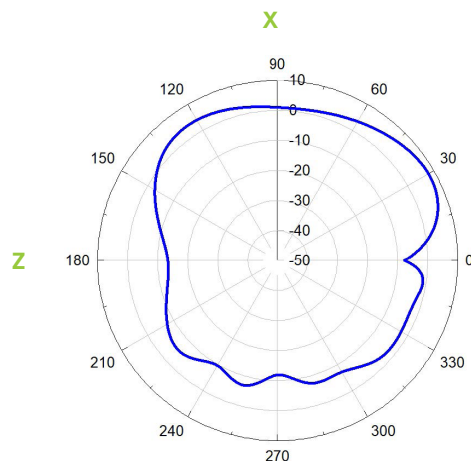
YZ 2.45 GHz



YZ 5.5GHz



XZ 2.45 GHz



XZ 5.5GHz