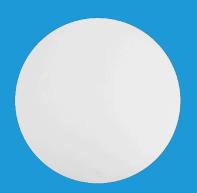
Araknis Networks® Wi-Fi 6 820 Series Indoor Wireless Access Point

AN-820-AP-I



Product Photos







The lightning-fast speeds of Wi-Fi 6 combined with the unmatched control provided by OvrC Wi-Fi management delivers enhanced performance and convenience to your networking portfolio. With cloud configuration for projects with multiple access points, you can easily configure, manage, monitor, and troubleshoot the network from the OvrC mobile or web app, eliminating hours of manual setup time.

For added efficiency, the OvrC Connect app empowers your clients to resolve common issues on their own.

A Fast & Efficient Network

Wi-Fi 6 standard helps with 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-820 features 4x4 antenna design supporting peak data rates of up to 3600Mbps at 80MHz and a 2.5Gbps LAN port-in to offer support for multi-gig jobs.

Powerful & Reliable Performance

Wi-Fi 6 utilizes OFDMA (orthogonal frequency-division multiple access) to tackle high-density environments by allowing simultaneous communication between multiple devices. This technology helps optimize bandwidth, thereby reducing congestion and improving speeds.

Pro-Friendly Features

Create multiple SSIDs and customize each to meet specific network requirements such as enabling/disabling Fast Roaming, Band Steering, or Wi-Fi 6 compatibility per SSID. This ensures the best Wi-Fi experience and provides tools necessary to support older IoT devices without impacting the main network.

This AP also offers DFS (Dynamic Frequency Selection) channel support to increase the number of Wi-Fi channels when available and WPA3 mode to offer latest security.

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Wi-Fi	
D. J. DUV D. L.	2.4GHz: 1148Mbps
Peak PHY Rates	5GHz: 2400Mbps (80MHz)
Wi-Fi Standards	IEEE 802/11a/b/g/n/ac/ax
	802.11ax: 4 to 2402 Mbps
	802.11ac: 6.5 to 1560 Mbps
Supported Rates	802.11n: 6.5 to 800Mbps
	802.11a/g: 6 to 54 Mbps
	802.11b: 1 to 11 Mbps
Fun anna ann Ada almination	2.4Ghz: Up to 1024-QAM
Frequency Modulation	5GHz: Up to 1024-QAM
0	2.4Ghz: 1-13
Supported Channels	5GHz: 36-64, 100-144, 149-165
MIMO	4x4 SU-MIMO
MIMO	4x4 MU-MIMO
C	4 streams SU/MU MIMO 5GHz
Spatial Streams	4 streams SU/MU MIMO 2.4GHz
Radio Chains and Streams	4x4:4 (5GHz)
Radio Chains and Streams	4x4:4 (2.4GHz)
Channelization	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
Operating Modes	Access Point Mode

RF	
Antenna Gain (max)	2.4GHz: Up to 4dBi
	5GHz: Up to 5dBi
Peak Transmit Power	2.4GHz: 25dBm
	5GHz: 25dBm
	ISM (2.4-2.484GHz)
	U-NII-1 (5.15-5.25GHz)
Frequency Bands	U-NII-2A (5.25 -5.35GHz)
	U-NII-2C (5.47-5.725GHz)
	U-NII-3 (5.725-5.85GHz)

5GH	5GHz Receive Sensitivty (dBm)										
		Γ20									
MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9
-89	-72	-66		-86	-69	-64	-63	-83	-66	-61	-59
	HE20			HE20 HE40							
MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11
-89	-72	-65	-60	-86	-69	-63	-58	-83	-66	-60	-55

5GHz TX Power Target (Per Chain)			
Rate (MCS0)	Power Out (dBm)		
HE20 CH48	18.5		
HE20 CH100	12		
HE20 CH149	23		
HE40 CH46	22		
HE40 CH102	15.5		
HE40 CH159	23.5		
HE80 CH42	16.5		
HE80 CH106	16.5		
HE80 CH155	20.5		

2.4GHz Receive Senstivity (dBm)							
HT20 HT40					T20		
MCS0	MCS7	MCS0	MCS7	MCS0	MCS8	MCS0	MCS9
-92	-74	-89	-72	-92	-70	-89	-66
MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11
-92	-74	-69	-63	-89	-72	-66	-60

2.4GHz TX Power Target (Per Chain)			
Rate (MCS0) Power Out (dBm)			
HE20 CH1	17.5		
HE20 CH6	24		
HE20 CH11	17.5		
HE40 CH1	15		
HE40 CH6	16.5		
HE40 CH11	15.5		

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

	1 x 2.5G BASE-T Ethernet (RJ45)
Ethernet	1 x 1G BASE-T Ethernet (RJ45)
Emeriei	Power over Ethernet (802.3af/at/bt)
Physical Characteristics	

Physical Interfaces

District Co.	9.29in (L) x 9.29in (W) x 1.89in (H)	
Physical Size	23.6cm (L) x 23.6cm (W) x 4.8cm (H)	
\\/-:-	2.82 lbs	
Weight	1.28 kg	
Mounting	Ceiling or Wall	
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				
Manager and Three combined	2.4GHz: 860 Mbps			
Measured Throughput	5GHz: 1920 Mbps			
Client Capacity	Up to 254 clients per AP			
SSID	Up to 8 per AP			

Power Consumption				
Power Supply	Operating Characteristics	Max Power Consumption		
DC Power 12V/4A	Full Functionality	25.3W		
802.3bt (PoE++)	Full Functionality	25.97W		
2000 1 (D. F.)	Full Functionality	25.22W		
802.3at (PoE+)	Full Functionality	25.22W		
902 2~f (DoE)	2.4Ghz Radio 1x4 Tx 21dBm	12 74W		
802.3af (PoE)	5GHz Radio 1x4 Tx 21dBm	12./4VV		

Certifications and Compliance				
Wi-Fi Alliance Standards Compliance	Wi-Fi 6 CERTIFIED a, b, g, n, ac, ax			
	Agile Multiband (MBO)			
	WMM			
	WPA/WPA2/WPA3			
	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

