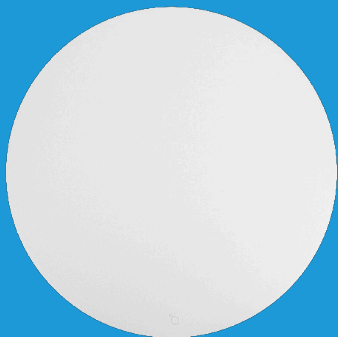


Araknis Networks® Wi-Fi 6 520 Series Indoor Wireless Access Point

AN-520-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-520 features 2x2 antenna design supporting peak data rates of up to 3000Mbps at 160MHz Channel bandwidth 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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Specs

Wi-Fi	
Peak PHY Rates	2.4GHz: 574Mbps
	5GHz: 2400Mbps (160MHz) 1200Mbps (80MHz)
Wi-Fi Standards	IEEE 802/11a/b/g/n/ac/ax
Supported Rates	802.11ax: 8.6 to 2402 Mbps
	802.11ac: 6.5 to 1560 Mbps
	802.11n: 6.5 to 400Mbps
	802.11a/g: 6 to 54 Mbps
	802.11b: 1 to 11 Mbps
Frequency Modulation	2.4Ghz: Up to 1024-QAM
	5GHz: Up to 1024-QAM
Supported Channels	2.4Ghz: 1-13
	5GHz: 36-64, 100-144, 149-165
MIMO	2x2 SU-MIMO
	2x2 MU-MIMO
Spatial Streams	2 streams SU/MU MIMO 5GHz
	2 streams SU/MU MIMO 2.4GHz
Radio Chains and Streams	2x2:2 (5GHz)
	2x2:2 (2.4GHz)
Channelization	20, 40, 80, 160MHz
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 3dBi
	5GHz: Up to 3dBi
Peak Transmit Power	2.4GHz: 25dBm
	5GHz: 26dBm
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)

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
HE160 CH50	15
HE160 CH114	14.5

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				VHT160			
MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9
-92	-72	-69		-89	-70	-66	-64	-86	-67	-63	-61	-83	-64	-60	-59
HE20				HE40				HE80				HE160			
MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11
-92	-72	-67	-61	-89	-68	-64	-58	-86	-67	-61	-56	-83	-64	-59	-53

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

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	1.34 lbs
	0.61 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: 425 Mbps
	5GHz: 1700 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/3A	Full Functionality	14.45W
802.3at (PoE+)	Full Functionality	15.28W
802.3af (PoE)	2.4Ghz Radio 1x1	12.26W
	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

