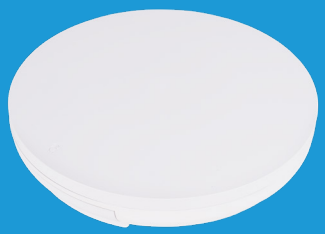
araknis® NETWORKS

OvrC enabled

Wi Fi 7 CERTIFIED

Product Photos



Araknis Networks 830 Wi-Fi 7 Indoor Access Point

AN-830-AP-I

The Araknis 830 Wi-Fi 7 Indoor Access Point delivers premium wireless connectivity for modern homes and light commercial networks. Designed as a versatile, high-performance indoor AP, it offers reliable coverage for a wide range of projects. With multi-gig throughput, ultra-low latency, and advanced Wi-Fi 7 features, it ensures smooth performance for streaming, conferencing, and smart devices. The concurrent tri-band 2x4x4 antenna design delivers balanced performance across all three bands, while a 10G uplink removes bottlenecks. Built-in OvrC support allows installers to deploy, optimize, and manage the AP quickly and confidently.

Speed & Efficiency

Tri-Band 4x4 Wi-Fi 7 performance lets you handle more devices with higher throughput for consistent, reliable performance in high-demand environments. Multi-gig Wi-Fi 7 throughput delivers noticeably faster streaming, conferencing, and smart home responsiveness, while expanded 6 GHz spectrum maximizes next-gen device performance with wider channels and less congestion. A 10G uplink backhaul eliminates wired bottlenecks so throughput speeds aren't limited.

Reliability & Coverage

An optimized RF design enhances coverage and reduces dead zones across residential and SMB spaces, while consistent performance under load ensures stable connectivity even with dozens of connected devices. Enterprise-grade WPA3 security protects user data and secures every connection, and a design built for long-term stability delivers reliable, always-on operation in demanding installations.

Smart Tools: Wi-Fi Optimization, Proximity View, Bridge Mode

Proximity View

A real-time view shows how each access point "sees" the others across the network, making it easy to spot overlapping coverage, gaps, and poor roaming zones.

Bridge Mode

Wireless Bridge Mode makes it easy to expand Wi-Fi coverage to detached structures, garages, patios, or remote areas where Ethernet isn't feasible. A built-in throughput test ensures reliable link quality before final deployment, allowing you to deliver seamless performance without pulling a new cable.

Wi-Fi Optimization

RF scanning continuously evaluates the wireless environment and automatically applies the best channel configuration in minutes. This eliminates the need for manual channel planning, speeds up setup, and delivers more predictable performance across every install.

Fully backward compatible with existing Araknis Wi-Fi 6 access points, allows mixed deployments with both Wi-Fi 6 and Wi-Fi 7 models so you can upgrade key areas without replacing your entire network.

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Specs

Wi-Fi	
Peak PHY Rates	2.4GHz: 650 Mbps 5GHz: 5444.4 Mbps 6GHz: 10888.9 Mbps
Wi-Fi Standards	IEEE 802.11a/b/g/n/ac/ax/be
Supported Rates	802.11be: 4 to 10888.9 Mbps 802.11ax: 4 to 4803.9 Mbps 802.11ac: 6.5 to 1733.3 Mbps 802.11n: 6.5 to 800 Mbps 802.11a/g: 6 to 54 Mbps 802.11b: 1 to 11 Mbps
Frequency Modulation	2.4GHz: Up to 4096-QAM 5GHz: Up to 4096-QAM 6GHz: Up to 4096-QAM
Supported Channels	2.4Ghz: 1-13 5GHz: 36-64, 100-144, 149-165 6GHz: 1-233
MIMO	2.4GHz: 2x2 SU-MIMO 5GHz: 4x4 MU-MIMO 6GHz: 4x4 MU-MIMO
Spatial Streams	2 streams SU-MIMO 2.4GHz 4 streams MU-MIMO 5GHz 4 streams MU-MIMO 6GHz
Radio Chains and Streams	2x2:2 (2.4GHz) 4x4:4 (5GHz) 4x4:4 (6GHz)
Channelization	20, 40, 80, 160, 320MHz
OFDMA	Downlink, Uplink
Security	Open, OWE, 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

RF	
Antenna Gain (max)	2.4GHz: Up to 3.76 dBi 5GHz: Up to 6.05 dBi 6GHz: Up to 6.71 dBi
Peak Transmit Power	2.4GHz: 23 dBm (2x2) 5GHz: 27 dBm (4x4) 6GHz: 25 dBm (4x4)
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) U-NII-5 (5.925–6.425GHz) U-NII-6 (6.425–6.525GHz) U-NII-7 (6.525–6.875GHz) U-NII-8 (6.875–7.125GHz)

2.4GHz Receive Senstivity (dBm)							
HT20		HT40		VHT20		VHT40	
MCS0	MCS7	MCS0	MCS7	MCS0	MCS8	MCS0	MCS9
-92	-74	-89	-72	-92	-70	-89	-66
HE20				HE40			
MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11
-92	-74	-69	-63	-89	-72	-66	-60
EHT20				EHT40			
MCS0	MCS7	MCS9	MCS11	MCS13	MCS0	MCS7	MCS9
-92	-74	-67	-62	-56	-89	-71	-64
EHT40							
MCS11	MCS13						
-59	-53						

2.4GHz Maximum EIRP	
Rate (MCS0)	Max EIRP (dBm)
EHT20 CH1	24.76
EHT20 CH6	29.94
EHT20 CH11	23.81
EHT40 CH3	23.27
EHT40 CH6	25.43
EHT40 CH9	22.19

Note: Max power varies by country setting, band, and MCS rate.

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5GHz Maximum EIRP	
Rate (MCS0)	Max EIRP (dBm)
EHT20 CH48	33.91
EHT20 CH100	29.12
EHT20 CH149	33.94
EHT40 CH46	34.86
EHT40 CH102	29.65
EHT40 CH151	34.03
EHT80 CH58	29.58
EHT80 CH106	29.62
EHT80 CH155	32.71
EHT160 CH50	25.9
EHT160 CH114	29.18

5GHz Receive Sensitivty (dBm)															
VHT20				VHT40				VHT80				VHT160			
MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9
-90	-72	-66		-87	-69	-64	-63	-84	-66	-61	-59	-81	-63	-58	-56
HE20				HE40				HE80				HE160			
MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11
-90	-72	-65	-60	-87	-69	-63	-58	-84	-66	-60	-55	-81	-63	-56	-51
EHT20				EHT40				EHT80							
MCS0	MCS7	MCS9	MCS11	MCS13	MCS0	MCS7	MCS9	MCS11	MCS13	MCS0	MCS7	MCS9	MCS11	MCS13	
-90	-72	-65	-60	-54	-87	-69	-63	-57	-51	-84	-66	-59	-54	-48	
EHT160															
MCS0	MCS7	MCS9	MCS11	MCS13											
-81	-63	-56	-51	-45											

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6GHz Maximum EIRP	
Rate (MCS0)	Max EIRP (dBm)
EHT 20 CH53	15.94
EHT 20 CH101	15.42
EHT 20 CH149	15.68
EHT 20 CH213	16.18
EHT 40 CH43	18.85
EHT 40 CH107	18.21
EHT 40 CH155	18.97
EHT 40 CH211	19.1
EHT 80 CH39	22.02
EHT 80 CH103	21.09
EHT 80 CH151	21.77
EHT 80 CH215	21.81
EHT 160 CH79	24.64
EHT 160 CH111	24.32
EHT 160 CH143	24.27
EHT 160 CH207	24.92
EHT 320 CH31	27.33
EHT 320 CH95	27.14
EHT 320 CH159	27.45
EHT 320 CH191	27.5

6GHz Receive Sensitivty (dBm)															
HE20				HE40				HE80				HE160			
MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11
-90	-72	-65	-60	-87	-69	-62	-58	-84	-66	-60	-55	-81	-63	-56	-51
EHT20				EHT40				EHT80							
MCS0	MCS7	MCS9	MCS11	MCS13	MCS0	MCS7	MCS9	MCS11	MCS13	MCS0	MCS7	MCS9	MCS11	MCS13	
-90	-72	-65	-60	-54	-87	-69	-62	-57	-51	-84	-66	-59	-54	-48	
EHT160				EHT320											
MCS0	MCS7	MCS9	MCS11	MCS13	MCS0	MCS7	MCS9	MCS11	MCS13						
-81	-63	-56	-51	-45	-78	-60	-53	-49	-44						

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Specs

Performance and Capacity	
Measured Throughput	2.4GHz: 499 Mbps 5GHz: 3424 Mbps 6GHz: 4877 Mbps
Client Capacity	Up to 381 clients per AP
SSID	Up to 26 per AP

Certifications and Compliance	
Wi-Fi Alliance	Wi-Fi 7 CERTIFIED a, b, g, n, ac, ax, be
	Agile Multiband (MBO)
	WMM
	WPA2/WPA3
Standards Compliance	IEC 60950-1, IEC 62368-1 3rd
	FCC DFS, IC DFS, CE DFS, AS DFS

Physical Interfaces	
Ethernet	2 x 10GBASE-T Ethernet (RJ45)
	Power over Ethernet (802.3at/bt)

Power Consumption		
Power Supply	Operating Characteristics	Max Power Consumption
DC Power 12V/4A	Full Functionality	47.7 W
802.3bt (Class 6)	Full Functionality	49.41 W
802.3at (Class 4)	2.4GHz Radio 1x1 (100% Transmit Duty Cycle) 5GHz Radio 2x2 (100% Transmit Duty Cycle) 6GHz Disabled Port 1: 2.5 Gbps Port 2: Disabled	25.05 W

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

Physical Characteristics	
Physical Size	9.29 in (L) × 9.29 in (W) × 1.89 in (H)
	23.60 cm (L) × 23.60 cm (W) × 4.8 cm (H)
Weight	3.97 lbs
	1.8 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)

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).