

Wi-Fi 6 Access Point AX1800 802.11ax Dual Band 1774 Mbps **57MM-AP20**



The 57MM-AP20 is a cost effective ultra high performance Wi-Fi 6 ceiling mount access point for covering large indoor areas with gigabit Wi-Fi coverage. Featuring a new compact circular design that blends into modern spaces, the AP20 is suitable for use in homes, multi-network commercial hotels, and other large indoor environments. The AP20 will provide seamless high-speed bidirectional internet coverage. The AP20 is an AX1800 Wi-Fi 6 dual-band ceiling mount Wi-Fi access point supporting 802.11ax with 1.774 Gbps.

3-Year Manufacturer's Warranty

Refer to website for full terms & conditions

Features and Benefits

- » New aesthetically pleasing, low-profile, and compact circular design with discrete cable management and an easy-to-use mounting plate
- » WiFi-6 (802.11ax) supporting speeds up to 1774 Mbps (Concurrent high-speed wireless access of 573 Mbps at 2.4GHz and 1201 Mbps at 5GHz, compliant with 802.11a/b/g/n/ac/ax Wi-Fi protocols)
- » Lifetime free Ruijie Cloud management: Remote fault alarm, one-click optimising and maintenance on Ruijie Cloud App.
- » Connection via 1 x 10/100/1000 Base-T port or simply by Reyee Mesh
- » Perfect for use in homes, commercial spaces, hotels, carparks, schools, etc.
- » Supports Reyee Mesh & AI Wireless Optimisation (WIO)



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Hardware Specifications		
Wi-Fi Protocols	5 GHz	Wi-Fi 4: IEEE 802.11a/n Wi-Fi 5: IEEE 802.11ac Wave2 Wi-Fi 6: IEEE 802.11ax
	2.4 GHz	Wi-Fi 4: IEEE 802.11b/g/n Wi-Fi 6: IEEE 802.11ax
Operating Frequency Bands (country-specific restrictions apply)	5 GHz	5.150 GHz to 5.350 GHz, 5.470 GHz to 5.725 GHz, 5.725 GHz to 5.850 GHz
	2.4 GHz	2.400 GHz to 2.4835 GHz
Spatial Streams	5 GHz	2 spatial streams, 2x2 MIMO
	2.4 GHz	2 spatial streams, 2x2 MIMO
Antenna	Omni-directional	Yes
	5 GHz Antenna Gain	4.58dBi
	2.4 GHz Antenna Gain	3.13dBi
Channel Width	5 GHz	Auto/20/40/80/160 MHz
	2.4 GHz	Auto/20/40 MHz
Data Rate	Max Throughput	1774Mbps
	5 GHz	1201Mbps
	2.4 GHz	573Mbps
Wi-Fi Coverage	Optimal Coverage	125m2
Modulation	Modulation	OFDM: BPSK@6/9 Mbps, QPSK@12/18 Mbps, 16QAM@24 Mbps, 64QAM@48/54 Mbps DSSS: DBPSK@1 Mbps, DQPSK@2 Mbps, and CCK@5.5/11 Mbps MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM OFDMA
Receiver Sensitivity	Receiver Sensitivity	11b: -91dBm(1Mbps), -88dBm(5.5Mbps), - 85dBm(11Mbps) 11a/g: -89dBm(6Mbps), -80dBm(24Mbps), - 76dBm(36Mbps), -71dBm(54Mbps) 11n: -83dBm(MCS0), -65dBm(MCS7), - 83dBm(MCS8), -65dBm(MCS15) 11ac: 20MHz: -83dBm(MCS0), -57dBm(MCS9) 11ac: 40MHz: -79dBm(MCS0), -57dBm(MCS9) 11ac: 80MHz: -76dBm(MCS0), -51dBm(MCS9) 11ac: 160MHz: -76dBm(MCS0), -50dBm(MCS9) 11ax: 20MHz: -85dBm(MCS0), -58dBm(MCS11) 11ax: 40MHz: -82dBm(MCS0), -54dBm(MCS11) 11ax: 80MHz: -79dBm(MCS0), -52dBm(MCS11) 11ax: 160MHz: -76dBm(MCS0), -49dBm(MCS11)
Dimensions (W x D x H)	Dimensions (excluding mounting kits)	175 mm x 39 mm (6.89 in. x 1.54 in.)

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Max. Transmit Power	5 GHz	Combined power: 24 dBm (single-stream power: 21 dBm) Note: The transmit power varies according to regulations in different countries and regions.
	2.4 GHz	Combined power: 24 dBm (single-stream power: 21 dBm) Note: The transmit power varies according to regulations in different countries and regions
	Standard Format	Frequency bands using and the max. EIRP:Note: Country-specific restrictions apply. European Union & United Kingdom 2400–2483.5 MHz, EIRP ≤ 20 dBm 5150–5350 MHz, EIRP ≤ 23 dBm 5470–5725 MHz, EIRP ≤ 30 dBm Myanmar : 2400–2483.5 MHz, EIRP ≤ 23 dBm 5725–5825 MHz, EIRP ≤ 30 dBm Thailand:2400–2483.5 MHz, EIRP ≤ 20 dBm 5150–5350 MHz, EIRP ≤ 23 dBm 5470–5725 MHz, EIRP ≤ 30 dBm 5725–5825 MHz, EIRP ≤ 30 dBm Indonesia:2400–2483.5 MHz, EIRP ≤ 27 dBm 5150–5350 MHz, EIRP ≤ 23 dBm 5725–5825 MHz, EIRP ≤ 23 dBm Egypt:2400–2483.5 MHz, EIRP ≤ 20 dBm 5150–5350 MHz, EIRP ≤ 23 dBm
Power Supply	DC(Local Power)	Yes 12V/1.5A
	DC Port Dimensions	Outer Diameter: 5.5 mm Inner Diameter: 2.1 mm Length: 10 mm
	802.3af (PoE)	Yes
	802.3at (PoE+)	Yes
	48 V passive PoE	Yes(60W)
PoE Out	Max. PoE Wattage by PSE	No
Power Consumption	Power Consumption	< 12.95W
Power Adapter	Power Adapter	No
Buttons	Button	1 x Factory reset
LEDs	LEDs	1 x System LED indicator(blue)
Environment	Operating Temperature	0°C to 40°C (32°F to 104°F)
	Storage Temperature	–40°C to +70°C (–40°F to +158°F)
	Operating Humidity	5% RH to 95% RH (non-condensing)
	Storage Humidity	5% RH to 95% RH (non-condensing)
Mounting	Ceiling-mount	Yes
	Wall-mount	Yes
	Pole-mount	No
Compliance Standards	Health	EN IEC 62311:2020
	Spectrum	EN 300 328 V2.2.2 EN 301 893 V2.1.1 EN 300 440 V2.2.1
Weatherproof	IP Rating	IP41
	Lightning Protection/Surge	+2 kV
Software Specifications		

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Operating Mode (AP Mode and Router Mode)	Router Mode	Yes
	AP Mode	Yes
WLAN	Recommended Number of Clients	BW160 11AX: 16(2.4G)+114(5G)=130 BW80 11AX: 16(2.4G)+84(5G)=100 11AC: 16(2.4G)+64(5G)=80
	Max. Number of SSIDs	8
	Radio-based STA Limit	Yes
	Layer 2 Client Isolation	Yes
	OFDMA Subcarrier	Yes
	OFDMA	Yes
	Target Wake Time (TWT)	No
	Wi-Fi Multimedia (WMM)	Yes
	802.1Q VLAN	Yes
	Multi-Link Operation (MLO)	No
	4K-QAM	No
	Same SSID for Different VLANs	Yes
Roaming	802.11k/v	Yes
	802.11r	Yes
	Layer 2 Roaming	Yes
	Layer 3 Roaming	Yes
	AI Roaming	Yes
Security	PSK Authentication	Yes
	Static Blocklist and Allowlist	Yes
	WPA (TKIP), WPA2 (AES), and WPA-PSK	Yes
	OWE (Enhanced Open) WPA3-SAE	Yes
	WPA2-PSK/WPA3-SAE	
	802.1X	Yes
	ARP Check	No
	IP Source Guard	No
	LLDP	No
	Static ARP Binding	Yes
	Proxy ARP	No
	Ping	Yes
	Traceroute	Yes
Routing	NAT	Yes
	Static IP Address	Yes
	DHCP Server	Yes
	PPPoE Client	Yes
	PPPoE Dial-up	
AP Mesh	Reyee Mesh	Yes
	Mesh Management	Yes

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Standalone Portal	Bandwidth Limit	Yes
	Captive Portal	Yes
	Data Quota	No
Management and Maintenance	Default Access/Password	Yes
	No. of APs on a Self-Organizing Network	300
	Unified Networking for All Network Equipment	Yes
	Local or Remote Management via Ruijie Reyee App	Yes
	Local Management via the Web Interface	Yes
	Remote Management via Ruijie Cloud	Yes
	SNMP	Yes
Platform Management Features	Optimization of Channel, Transmit Power, and Management Frame Power Settings. Both Pre- and Pro-Optimization Settings are Displayed.	Yes
	Unified Configuration via Ruijie Cloud	Yes
	Unified Monitoring via Ruijie Cloud	Yes
Others		
Flash	Flash	128MB
Memory	Memory	256MB
Color of AP Enclosure	Color of AP Enclosure	Ruijie white W-2