

Wi-Fi 7 Outdoor Omnidirectional Access Point BE5040 802.11be Dual-bands 5 Gbps 57MM-AP703



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The 57MM-AP703 is a next-generation Wi-Fi 7 dual-band omnidirectional access point designed for both indoor and outdoor environments. Ideal for villas, homes, retail spaces, and various outdoor applications, it delivers high-speed connectivity to multiple users. Operating concurrently on 2.4GHz and 5GHz bands, the AP703 offers combined speeds of up to 5011 Mbps with dual-band MIMO support. It also features Reyee Mesh, a Standalone Portal, and AI Roaming for seamless network performance and simplified management.

3-Year Manufacturer's Warranty

Refer to website for full terms & conditions

Features and Benefits

- » Wi-Fi 7 BE5040 mesh AP: A high-performance indoor/outdoor access point ideal for villas, retail stores, and commercial applications.
- » Flexible installation: Supports wall or pole mounting and features an IP65-rated weatherproof design for reliable operation in any environment.
- » Full protocol compatibility: Compliant with 802.11a/b/g/n/ac/ax/be standards for broad device support and future-ready connectivity.
- » 2.5GE high-speed port: Equipped with a multi-gigabit 2.5GbE LAN port to eliminate transmission bottlenecks and maximise throughput.
- » Versatile usage: Perfect for deployment in commercial buildings, hotels, car parks, schools, and more.
- » Lifetime free cloud management: Includes Ruijie cloud access with remote fault alerts, one-click optimisation, and simple maintenance via the Ruijie cloud app.



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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 Wi-Fi 7: IEEE 802.11be
	2.4 GHz	Wi-Fi 4: IEEE 802.11b/g/n Wi-Fi 6: IEEE 802.11ax Wi-Fi 7: IEEE 802.11be
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
	2.4GHz	2.400 GHz to 2.4835 GHz
Spatial Streams	5 GHz	3 spatial streams, 3x3 MIMO
	2.4 GHz	2 spatial streams, 2x2 MIMO
Antenna	Omni-directional Antenna	Yes
	5 GHz Antenna Gain	6.28 dBi
	2.4 GHz Antenna Gain	3.62 dBi
Channel Width	5 GHz	Auto/20/40/80/160 MHz
	2.4 GHz	Auto/20/40 MHz
Data Rate	Max. Throughput	5011 Mbps
	5 GHz	4323 Mbps
	2.4 GHz	688 Mbps
Modulation	Modulation	OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, and 64-QAM @ 48/54 Mbps DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, and CCK @ 5.5/11 Mbps MIMO-OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, and 4096-QAM OFDMA

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Max. Transmit Power	Standard Format	Frequency bands using and the max. EIRP: Note: Country-specific restrictions apply.
		<p>European Union & United Kingdom: 2400–2483.5 MHz, EIRP ≤ 20 dBm 5470–5725 MHz, EIRP ≤ 30 dBm</p> <p>United States: 2400–2483.5 MHz, max. output power ≤ 30 dBm & EIRP ≤ 36 dBm 5150–5250 MHz, max. output power ≤ 30 dBm & EIRP ≤ 36 dBm 5250–5350 MHz, max. output power ≤ 24 dBm & EIRP ≤ 30 dBm 5470–5725 MHz, max. output power ≤ 24 dBm & EIRP ≤ 30 dBm 5725–5850 MHz, max. output power ≤ 30 dBm & EIRP ≤ 36 dBm</p> <p>Myanmar: 2400–2483.5 MHz, EIRP ≤ 23 dBm 5725–5825 MHz, EIRP ≤ 30 dBm</p> <p>Thailand: 2400–2483.5 MHz, EIRP ≤ 20 dBm 5470–5725 MHz, EIRP ≤ 30 dBm 5725–5825 MHz, EIRP ≤ 30 dBm</p> <p>Indonesia: 2400–2483.5 MHz, EIRP ≤ 36 dBm 5725–5825 MHz, EIRP ≤ 36 dBm</p> <p>Egypt: 2400–2483.5 MHz, EIRP ≤ 20 dBm 5150–5350 MHz, EIRP ≤ 23 dBm</p>

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Receiver Sensitivity	Receiver Sensitivity	11b: -91 dBm (1Mbps), -88 dBm (5.5Mbps), -85 dBm (11Mbps) 11a/g: -89 dBm (6Mbps), -90 dBm (24Mbps), -76 dBm (36Mbps), -71 dBm (54Mbps) 11n: -83 dBm (MCS0), -65 dBm (MCS7), -83 dBm (MCS8), -65 dBm (MCS15) 11ac: 20 MHz: -83 dBm (MCS0), -57 dBm (MCS9) 11ac: 40 MHz: -80 dBm (MCS0), -54 dBm (MCS9) 11ac: 80 MHz: -76 dBm (MCS0), -51 dBm (MCS9) 11ac: 160 MHz: -76 dBm (MCS0), -50 dBm (MCS9) 11ax: 20 MHz: -85 dBm (MCS0), -60 dBm (MCS11) 11ax: 40 MHz: -82 dBm (MCS0), -58 dBm (MCS11) 11ax: 80 MHz: -79 dBm (MCS0), -56 dBm (MCS11) 11ax: 160 MHz: -79 dBm (MCS0), -55 dBm (MCS11) 11be: 20 MHz: -85 dBm (MCS0), -60 dBm (MCS13) 11be: 40 MHz: -82 dBm (MCS0), -58 dBm (MCS13) 11be: 80 MHz: -79 dBm (MCS0), -56 dBm (MCS13) 11be: 160 MHz: -79 dBm (MCS0), -54 dBm (MCS13)
Dimensions (W x D x H)	Dimensions (excluding mounting kits)	90 mm x 46 mm x 239 mm (3.54 in. x 1.81 in. x 9.41 in.)
Weight	Weight (excluding mounting kits)	≤ 0.7 kg (1.54 lbs.)
Service Ports	Number of 10/100/1000/2.5GBASE-T Ports	1
	Number of 10/100/1000/2500BASE-T Ports	0
	Number of 100/1000/2.5G/5G/10GBASE-T Ports	0
	Number of 1GE SFP Ports	0
Power Supply	DC (Local Power)	No
	DC Connector Dimensions	No
	802.3af (PoE)	Yes (2.4 GHz: 1T1R; 5 GHz: 2T2R)
	802.3at (PoE+)	Yes
	802.3bt (PoE++)	N/A
	48 V Passive PoE	N/A
PoE Out	Max. PoE Wattage by PSE	No
Power Consumption	Power Consumption	≤ 21 W
Power Adapter	Power Adapter	No
Button	Button	1 x Reset reset
Status LED	Status LED	1 x System LED indicator (blue)
Environment	Operating Temperature	-30°C to +65°C (-22°F to +149°F)
	Storage Temperature	-40°C to +85°C (-40°F to +185°F)
	Operating Humidity	0% RH to 100% RH (non-condensing)
	Storage Humidity	0% RH to 100% RH (non-condensing)
Mounting	Ceiling-mount	No
	Wall-mount	Yes
	Pole-mount	Yes

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Regulatory Compliance	Health	EN IEC 62311:2020
	Spectrum	EN 300 328 V2.2.2.2 EN 301 893 V2.1.1 EN 300 440 V2.2.1 Draft EN 303 687 V1.0.0
Weather Resistance	IP Rating	IP65
	Lightning Protection/Surge	+4 kV
Software Specifications		
Operating Mode (AP Mode and Router Mode)	Router Mode	Yes
	AP Mode	Yes
WLAN	Recommended Number of Associated Clients	BW160 11be/ax: 16 (2.4 GHz) + 94 (5 GHz) = 110 BW80 11ax: 16 (2.4 GHz) + 64 (5 GHz) = 80 11ac: 8 (2.4 GHz) + 32 (5 GHz) = 40
	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)	Yes
	4K-QAM	Yes
	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 WPA2-PSK/WPA3-SAE	Yes
	802.1X	Yes
	ARP Check	No
	IP Source Guard	No
	LLDP	No
	Static ARP Binding	Yes
	Proxy ARP	No
	Ping	Yes
	Traceroute	Yes

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Routing	NAT	Yes
	Static IP Address	Yes
	DHCP Server	Yes
	PPPoE Client	Yes
	PPPoE Dial-up	
AP Mesh	Mesh Management	Yes
	Reyee Mesh	Yes
Standalone Portal	Captive Portal	Yes
	Bandwidth Limiting	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 Through Ruijie Cloud	Yes
	Unified Monitoring Through Ruijie Cloud	Yes
Others		
Flash	Flash	256 MB
Memory	Memory	512 MB
Color of AP Enclosure	Color of AP Enclosure	Warm White