

Data sheet

Dual Band 4x4 Wi-Fi 6 Indoor Access Point



Features

This access points provides dual-band dual-concurrent 4 x 4 Wi-Fi 6 (802.1ax) with dedicating scanning Wi-Fi radio for RRM, optimizing channel selection and TX power for entire deployment. Each AP is equipped with built-in AP controller function, capable of controlling multiple APs in the same group, and AP controller will automatically appoint one AP to be its backup for uninterrupted networking with reduced IT cost and collaboration efficiency architecture. By fulfilling enterprise requirements, such as VLAN application, WPA2/WPA3, and QoS, it is an appropriate solution for enterprise indoor access point wherever offices, large stores, factories and fields require full Wi-Fi coverage.

With diverse mounting kits, it supports T-rail, ceiling and wall mount and can be supplied with 12 VDC or POE+. Economy, flexible on installation and scalability are extra benefits of our indoor enterprise AP.

Technical Specifications

Wi-Fi Interface

Standards	2.4 GHz 802.11b/g/n/ax 5 GHz 802.11a/n/ac/ax
Radio Chains	2.4 GHz 4x4:4 5 GHz 4x4:4
Supported Rates	802.11ax: 4 to 2400 Mbps 802.11ac: 6.5 to 1732 Mbps 802.11n: 6.5 to 600 Mbps 802.11a: 6 to 54 Mbps 802.11g: 6 to 54 Mbps 802.11b: 1 to 11 Mbps
Spatial Streams	4 for both SU-MIMO & MU-MIMO
Performance	2.4 GHz – 1100 Mbps 5 GHz – 2400 Mbps
Maximum transmit power	2.4 GHz: Up to 27 dBm (combined power) 5 GHz: Up to 28 dBm (combined power) Maximum power is limited by local regulatory requirements
Minimum receiver sensitivity	2.4GHz HT20/VHT20/HE20 : 93dBm @MCS0 2.4GHz HT40/VHT40/HE40 : 94dBm @MCS0 5GHz HT20/VHT20 : 95dBm @MCS0 5GHz VHT40/HE40 : 93dBm @MCS0 5GHz VHT80/HE80 89dBm @MCS0
Number of clients	Up to 128 per radio, 256 per AP max2
ESSIDs	Up to four per radio
Security	VLAN, WPA2, WPA3, Radius Server, captive portal control, QoS

Antenna

Number / type of antennas	4x integrated single band, 2.4 2.5 GHz omnidirectional antennas 4x integrated single band, 5.1 5.8 GHz omnidirectional antennas 1x internal dual band Wi-Fi antenna
Antenna	2.4GHz up to 5dBi 5GHz up to 4.5dBi

Ethernet Interface

Number	2
Type	Gigabit Ethernet, 1x 1Gbps, 1x1/2,5Gbps
Connector	RJ-45 Port, shielded
Power-over-Ethernet	Powered Device (PD) IEEE 802.3at

Button

Reset	Reset to default
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LEDs

Device LEDs	One Multi-color LED
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Power supply

Input Voltage	12 VDC or PoE 802.3af/at PD
Power Consumption	802.3at POE+: 20W @ full functionality with 2.4GHz radio: 4x4, 21dBm per chain and 5GHz radio: 4x4, 22dBm per chain 802.3af POE : 12W @ limited functionality with 2.4GHz radio: 2x4, 19dBm per chain and 5GHz radio: 2x4, 20dBm per chain

Environmental Conditions

Temperature	Operation	0..+50 °C
	Storage	-40..+80 °C
Humidity	10..90%, non-condensing	

Mechanic

Dimensions (in mm)	220 x 220 x 43 (W x D x H, without connectors/antennas)
Material	Plastic
Weight	Approx. 1.25 Kg
Installation	DIN Rail or wall/ceiling mounting

Firmware Features

System Management

- Multi Tenants
- Grouping and profiles
- Mass provisioning and FOTA
- Account Management
- Zero touch deployment
- WEB GUI

Radio Resources Management

- Automatic Channel Allocation
- Automatic Power Control
- Coverage hole detection
- Load balancing
- Fast roaming
- Band steering

Wi-Fi

- WMM Queues Priority
- Rate limitation per SSID
- Access list
- Client Authentication Protocols
- Integrated AAA Server or external Radius Server
- WPA2/WPA3 Enterprise /Personal
- Captive Portal
- Social Media Authentication
- Hotspot2.0
- Beamforming
- Airtime Fairness
- Client Isolation

IP / VLAN

- DHCP Server/Relay
- Multiple SSIDs and VLAN mapping

Monitoring

- AP, Clients Monitoring
- Rogue AP Detection/Reporting
- Visualization & Report for AP
- Location Service and Network Map
- Data Monitoring and Notification
- System Performance Monitoring
- Logs Monitoring
- Client statistics and detection

Drawings



Order Information

	Description	Article-No.:
	Dual Band 4x4 Wi-Fi 6 Indoor Access Point	
	Dual Band 4x4 Wi-Fi 6 Indoor Access Point 2.5 / 5 GHz Wi-Fi, 1x 1000Base-T, 1x 1/2.5GBase-T, 1x PD, 12 VDC, managed, 0..50°C	MS659150M

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