

3600Mbps Dual-Band Ceiling AP | Wi-Fi 7

- Ultra-High Speed WiFi 7: Supports 688Mbps @2.4GHz and 2882Mbps @5GHz, with an aggregate throughput of ~3600Mbps for seamless high-bandwidth connectivity.
- Advanced 4096-QAM Modulation: Boosts data transmission efficiency and network throughput beyond previous WiFi standards.
- MLO (Multi-Link Operation): Enables multi-frequency concurrency, enhancing latency, speed, and reliability for next-gen applications.
- 2.5Gbps Ethernet Port: Unlocks full performance potential with a high-speed 2.5G uplink, ideal for modern enterprise networks.
- Flexible Power Options: Supports 802.3at PoE and DC input, allowing for easy deployment in diverse installation scenarios.



The SMN-A307C is a next-generation WiFi 7 indoor ceiling-mounted access point designed for high-speed, high-density wireless networking environments. Featuring dual-band 2×2 MIMO on both 2.4GHz and 5GHz, it delivers blazing-fast performance with a total throughput of nearly 3600Mbps, supporting up to 128 concurrent users.

Hardware Specification:

CPU	IPQ5312 + QCN6412 + QCA8081 + QCA8337	Power Supply	802.3at PoE or DC 12V/2A
Flash	NAND 128MB	Power Consumption	<20W
Memory	DDR4 512MB	Reset Button	Yes
Antenna	2.4GHz: 2 × 4dBi; 5GHz: 2 × 4dBi	Network	WAN: 1 × 10/100/1000/2500Mbps (802.3at PoE supported) LAN: 1 × 10/100/1000Mbps
Dimensions	198mm × 198mm × 37mm	LED Indicators	System (Red), 2.4G (Green), 5G (Blue)
Weight	0.52kg	Operating Temp.	-10° C to 55° C
ESD Protection	Air: ±8kV, Contact: ±6kV	Storage Temp.	-40° C to 70° C
Surge Protection	Common: 2kV, Differential: 1kV	Humidity	5% – 95% (Non-Condensing)

Wireless Specifications:

Frequency	2.4GHz ~ 2.484GHz	5.150GHz ~ 5.850GHz
Protocol	802.11b/g/n/ax/be	802.11a/n/ac/ax/be
Data Rate	Up to 688Mbps	Up to 2882Mbps
Antenna	2 × 2.4GHz (4dBi)	2 × 5GHz (4dBi)
MIMO	2×2	2×2
Modulation	Up to 4096-QAM	Up to 4096-QAM
Channel Width	Up to 160MHz	Up to 160MHz
Special Features	Supports MLO (Multi-Link Operation), WiFi 7 enhancements	Same as 2.4GHz

RF Specifications:					
2.4G Power	802.11b	11M	26±2dBm	1M	26±2dBm
	802.11g	54M	23±2dBm	6M	25±2dBm
	802.11n HT20	MCS7	22±2dBm	MCS0	24±2dBm
	802.11n HT40	MCS7	22±2dBm	MCS0	24±2dBm
	802.11ax HE20	MCS11	20±2dBm	MCS0	24±2dBm
	802.11ax HE40	MCS11	20±2dBm	MCS0	24±2dBm
5G Power	802.11a	54M	22±2dBm	6M	25±2dBm
	802.11n HT20	MCS7	21±2dBm	MCS0	23±2dBm
	802.11n HT40	MCS7	21±2dBm	MCS0	23±2dBm
	802.11ac VHT20	MCS8	21±2dBm	MCS0	23±2dBm
	802.11ac VHT40	MCS9	20±2dBm	MCS0	23±2dBm
	802.11ac VHT80	MCS9	20±2dBm	MCS0	23±2dBm
	802.11ax HE20	MCS11	20±2dBm	MCS0	22±2dBm
	802.11ax HE40	MCS11	20±2dBm	MCS0	22±2dBm
	802.11ax HE80	MCS11	20±2dBm	MCS0	22±2dBm
	802.11ax HE160	MCS11	20±2dBm	MCS0	22±2dBm
2.4G Receive Sensitivity	802.11b	11M	-87dBm	1M	-94dBm
	802.11g	54M	-75dBm	6M	-88dBm
	802.11n HT20	MCS7	-72dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-70dBm	MCS0	-88dBm
	802.11ax HE20	MCS11	-63dBm	MCS0	-88dBm
	802.11ax HE40	MCS11	-61dBm	MCS0	-88dBm
5G Receive Sensitivity	802.11a	54M	-75dBm	6M	-90dBm
	802.11n HT20	MCS7	-73dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-63dBm	MCS0	-88dBm
	802.11ac VHT20	MCS8	-67dBm	MCS0	-88dBm
	802.11ac VHT40	MCS9	-64dBm	MCS0	-88dBm
	802.11ac VHT80	MCS9	-60dBm	MCS0	-88dBm
	802.11ax HE20	MCS11	-61dBm	MCS0	-88dBm
	802.11ax HE40	MCS11	-58dBm	MCS0	-88dBm
	802.11ax HE80	MCS11	-55dBm	MCS0	-84dBm
	802.11ax HE160	MCS11	-51dBm	MCS0	-82dBm
2.4G EVM	802.11b:≤-10 dB ; 802.11g: ≤-25 dB ; 802.11n:≤-28 dB; 802.11ax:≤-35 dB				
5G EVM	802.11a:≤-25 dB ; 802.11n: ≤-28 dB ; 802.11ac:≤-32 dB; 802.11ax:≤-35 dB				

Firmware Specification:

Working Mode

- Gateway mode
- Access Point (AP) mode

Wireless Functions

- Multiple SSID support: 4 SSIDs per band (2.4GHz & 5GHz)
- SSID hiding support
- Seamless roaming (802.11k/v)
- 5G Prior for faster connectivity
- Wireless Security: OPEN, WPA/WPA2-PSK (TKIP/AES), WPA3-PSK (TKIP/AES)
- MAC address filtering
- Wi-Fi time on/off scheduling for energy saving
- Client isolation to enhance wireless stability
- Adjustable RF power to adapt to environment
- Max 64 users per band

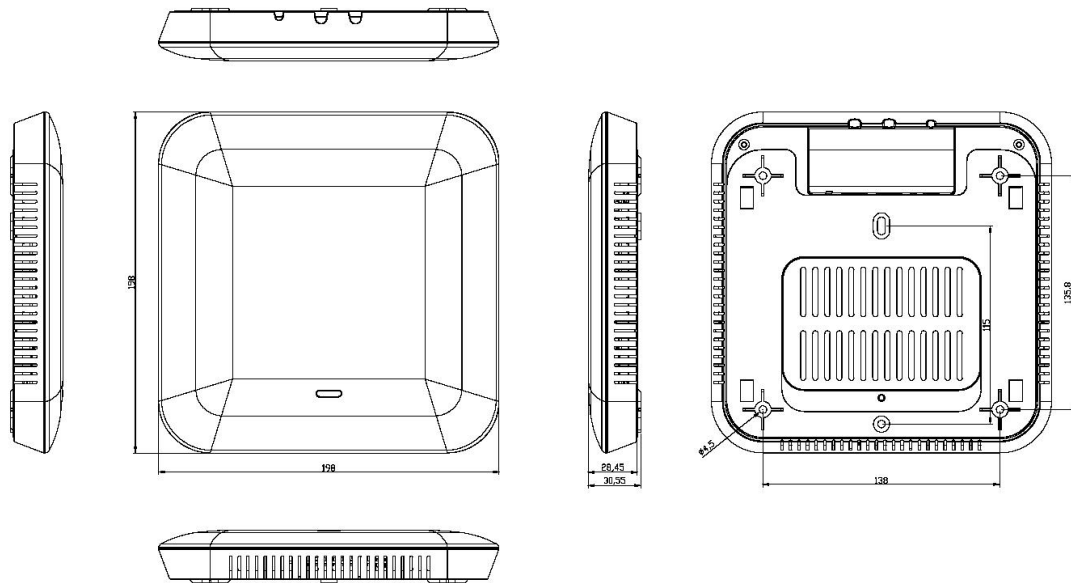
Networking Functions

- VLAN configuration
- Cloud platform access in gateway mode

Device Management

- Configuration backup & restore
- Factory reset support
- Scheduled or immediate reboot
- Admin password modification
- Firmware upgrade
- System log management
- Supports: Web GUI management, AC controller management, Remote management, Cloud platform management

Dimension:



Packing List:

AP	1	Mounting Accessories	1
Lan cable	1	Gift Box	1