

DATASHEET



OM-WCAP-75

The OM-WCAP-75 is OMX new generation 11ac indoor wireless access point at competitive price point, delivering data rate 450Mbps at 2.4GHz and 1300Mbps at 5GHz. With consistent stability and extended ranges the OM-WCAP-75 is an ideal choice for the integrated wireless network deployment for a variety of medium density enterprise including hotels, hospitals, campuses, offices and SMEs. The centralized Mobula controller systems further facilitate the operation efficiency and reduce maintenance costs.



HIGHLIGHTS

- Aesthetically attractive ceiling-mount or wall-mount design
- Flexible power supply supports standard PoE and AC adapter
- Dynamic Led color indicating real-time AP status
- Band steering generates purified wireless and extended load capacity
- Auto RF management reduces wireless interferences
- Centralized management via Mobula Controller Platforms
- Wi-Fi probing boosts client traffic analysis and Wi-Fi marketing

FEATURES

High Integrated Chip

3*3 MIMO chip supports high data throughput and robust load capacity, providing excellent performance and stability.

Smart RF and Network Optimization

Auto channel and power adjustment as well as wireless QoS supports more concurrent users, eliminates network congestion and latency guarantee high bandwidth services

Flexible Deployment Options

PoE or AC power supply, ceiling or wall-mount deployments.

Multi SSID and User Grouping

VLAN and SSID tagging enable different access policy and user grouping. Portal authentication and blacklist features isolate staff network and guest network improve network security.

Zero-Touch AP Deployment

AP configuration, firmware upgrade, network monitor all performed by a unified platform results in high network scalability. Plug-and-play improves operation efficiency and reduces maintain costs.

Hardware Specs

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Network interface	1*10/100/1000Mbps
Console	1
Power supply	PoE or local power supply
PoE	IEEE 802.3at
Local power supply	48V DC
Weight	≤400g
Indicator	1*SYS light, 2 color display
Antenna	Built-in 3*3 MIMO antenna,2.4GHz:5dBi 5GHz: 3dBi
Dimensions	Φ195mm*41mm
Reset	Supported
Mounting	Ceiling/Wall Mount
Protection grade	IP41
Anti-theft design	Supported
Power consumption	≤17W
Environmental conditions	Operating temperature : -10°C ~ 55°C (-14°F ~ 131°F) Storage temperature : -40°C ~ 70°C (-40°F ~ 158°F) Operating humidity: 5% ~ 95% non-condensing Storage humidity: 5% ~ 95% non-condensing

RF Parameters	
Wi-Fi standards	IEEE 802.11a/b/g/n/ac
Frequency	(Subject to local regulations limits) 2.400 - 2.4835 GHz 5.150 - 5.250 GHz 5.250 - 5.350 GHz 5.470 - 5.725 GHz 5.725 - 5.850 GHz
Spatial streams	3
Support channels	802.11a,802.11n,802.11ac(802.11a compliant): 13 channels 802.11b, 802.11g, 802.11n(802.11b/g compliant): 13 channels
RF technology	OFDM : BPSK@6/9Mbps、 QPSK@12/18Mbps、 16-QAM@24Mbps、 64-QAM@48/54Mbps DSSS : DBPSK@1Mbps、 DQPSK@2Mbps、 CCK@5.5/11Mbps MIMO-OFDM (11n) : MCS 0-23 MIMO-OFDM (11ac) : MCS 0-9
Modulation type	11b:DSS:CCK@5.5/11Mbps,DQPSK@2Mbps, DBPSK@1Mbps 11a/g:OFDM:64QAM@48/54Mbps,16QAM@24Mbps, QPSK @12/18Mbps,BPSK@6/9Mbps 11n:MIMO-OFDM:BPSK,QPSK,16QAM,64QAM 11ac:MIMO-OFDM:BPSK,QPSK,16QAM,64QAM,256QAM
Modulation type	20/40/80 MHz
Max. TX Rate of single frequency	2.4GHz : 450Mbps ; 5GHz : 1300Mbps ;
TX power (subject to local regulations limit)	≤26dBm
Adjustable power range	1dBm~ (Subject to local regulations limit)
Automatic/Manual channel adjustment	Supported
Automatic/Manual power adjustment	Supported
RF switch	Support custom auto on/off, or manually turn on/off wireless signal

Software Features		
WLAN features	User access limit	Supported, also support user access limit on SSID
	Virtual AP	8
	SSID hiding	Supported
	Smart QoS based on user, traffic and frequency	Supported
	Bandwidth control	Control on single user, access point, SSID supported
	Terminal type identification	Supported
Security features	Authentication methods	WPA-PSK, WPA-e, MAC authentication, 802.1X, Active Directory integration, Social Login, Web Portal, SMS authentication etc.
	Encryption	WPA(TKIP), WPA2(AES), WPA-PSK, WEP(64/128 bit) supported
	SMS Authentication	Supported
	Social login	Supported
	Free authentication for secondary login	Supported
	LDAP authentication	Supported
	Radius authentication	Supported
	Black/ White List	Supported
	ACL rules	User, AP, SSID ACL rules supported
	User isolation	Supported
	WIPS	Supported
	DDoS protection	Supported
	Deployment mode	Layer3 deployment
AP detection		Layer-2 layer-3 auto detection, DHCP option 43, DNS
CAPWAP		Supported
Manage & maintain	Fit AP	Hardware controller, software controller and APP controller management supported
	Fat AP	WEB, CLI supported
	Web management	Supported
	SNMP	V1/V2C/V3 supported
	Other maintenance	SSH, Telnet, TFTP supported
	Statistics & syslog	Supported
	Troubleshooting	Failure records supported
Warning	Indicator warning supported	

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