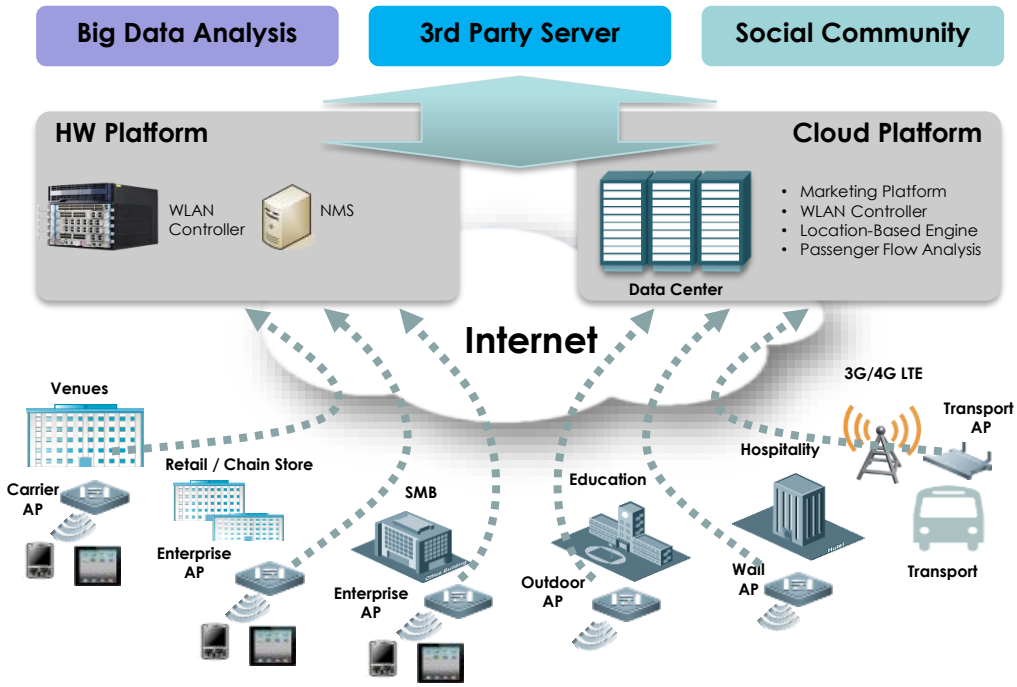
UOA5330-O

DUAL-BAND 802.11AC WAVE 2 ACCESS POINT

Features

- DUAL-BAND 2.4/5GHz
- IEEE802.11a/b/g/n/ac Wave 2
- 3X3 MIMO, MU-MIMO
- HIGH AGGREGATED DATA RATE 1.75Gbps
- UP TO 32 BSSIDs
- CENTRALIZED ARCHITECTURE
- VARIOUS AUTHENTICATION MECHANISMS
- POE (IEEE 802.3at)
- OUTDOOR APPLICATIONS, IP67

High-performance integrated Wireless Access Point



Description

The UTStarcom's UOA5330-O is the newest intelligent dual-band outdoor access point supporting the latest 802.11ac Wave 2 standard, 3 spatial streams, 3x3 MIMO. These advanced features along with dual-radio dual-band design offer extreme performance with aggregated data rate up to 1.75Gbps.

Providing large coverage area, big number of SSIDs and high throughput, UOA5330-O is ideally suited for installation in dense urban environments, deployment of hotspots, providing connectivity in stadiums, malls, campuses, and for many other outdoor applications. Providing up to 32 BSSIDs, the UOA5330-O can assign individual parameters and security policies for each SSID. The product provides QoS enforcement through support of a wide range of QoS policies such as WLAN/AP/STA-based bandwidth limitation modes that prioritize key services.

The UOA5330-O supports centralized (FIT) and local (FAT) network modes for greater deployment flexibility and easier device and network management. In FIT AP mode the UOA5330-O is managed via central Access Controller (see UTStarcom's MSG Series), which handles all aspects of AP operations including configuration of channel, power, SSID, security, VLAN etc.

Its compact size and support of PoE makes it ideal for a variety of outdoor applications and deployment scenarios and simplifies site selection and AP installation.

As a part of AC-controlled wireless network, the UOA5330-O efficiently helps operators to meet the ever rising demand for bandwidth.

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A global telecom infrastructure provider of innovative carrier-class broadband transport and access solutions.

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Product Highlights

ROBUST WIRELESS PERFORMANCE

The UOA5330-O supports concurrent dual-band radio, integrated MIMO and OFDM technology and smart WLAN features. It is capable of providing large coverage and data rates up to 450Mbps in 2.4GHz band and up to 1.3Gbps in 5GHz band for aggregated performance of 1.75Gbps.

RELIABLE WIRELESS SECURITY

The UOA5330-O supports variety of authentication methods including 802.1X and Web authentication, and provides advanced wireless security features including WPA(TKIP), WPA2(AES), WPA-PSK, and WEP (64 or 128 bits) in order to meet the different access control requirements for different users and applications.

CENTRALIZED ARCHITECTURE

Wireless AC or Cloud AC can remotely and centrally control all aspects of AP operations including configuration of channel, power, SSID, security, VLAN etc.

COMPREHENSIVE MANAGEMENT

The centralized network management system NMS Netman 8000 OMC-W 3.0.X (UTView 4000) provides comprehensive control functions and monitoring tools for efficient remote network operation.

FLEXIBLE DEPLOYMENT

The AP supports both FIT and FAT modes, and enables easy switching between them based on required deployment scenario. Robust outdoor design of the UOA5330-O, multiple installation options and support of PoE simplify site acquisition.

EASY INSTALLATION AND OPERATION

Zero-configuration installation in FIT mode with auto-configuration via Wireless AC ensures quick installation of the UOA5330-O. Centralized configuration, control and optimization functions available with AC-based WLAN facilitate easy deployment of large-scale networks and easy operation and maintenance with fewer site visits required.

ENVIRONMENTAL PROTECTION

The UOA5330-O features an industrial-class enclosure that can withstand exposure to extreme outdoor conditions and is rated IP67.

Technical Specifications

WLAN CHARACTERISTICS

WLAN Standards	IEEE802.11a/b/g/n/ac Wave 2
SSID number	Up to 16 (up to 32 BSSID)
Per-SSID configuration	Yes: authentication, encryption, VLAN attributes
Hidden SSID	Yes
Max clients per AP	256
WDS	Yes (Bridge mode)
Mesh	Yes
Fair airtime	Yes
Intelligent identification of smart devices	Yes
Intelligent load balancing based on the number of users or traffic	Yes
STA control	SSID/radio-based
Bandwidth control	STA/SSID/AP-based speed control
QoS	WMM per 802.11e
5 GHz band preference	Yes
TDMA scheduling	Yes
802.11w	Yes
Dynamic Frequency Selection (DFS)	Yes
RF Management	Yes
Hotspot 2.0	Yes
Fast roaming	Yes

WLAN SECURITY

WLAN authentication	PSK, Web, 802.1x , MAC address, QR code, SMS
WLAN encryption	WPA (TKIP) , WPA2 (AES), 802.11i, WPA-PSK, and WEP (64 or 128 bits)
WLAN security	Data frame filtering (white list, static/dynamic black list) User isolation Rogue AP detection and countermeasure Dynamic ACL assignment WAPI X.509 digital certificate RADIUS CPU Protection Policy (CPP) Network Foundation Protection Policy (NFPP) WIDS (Wireless Intrusion Detection System) Remote probe*

RF CHARACTERISTICS

Radio	Concurrent dual-radio dual-band
MIMO	3x3 SU-MIMO, 3x3 MU-MIMO
Spatial Streams	3
Frequency Bands	802.11b/g/n: 2.4GHz to 2.483GHz 802.11a/n/ac: 5.150GHz to 5.350GHz, 5.47GHz to 5.725GHz, 5.725GHz to 5.850GHz (varies per country)
Max Data Rates	Internal antenna: 450Mbps@2.4GHz 1.3Gbps@5GHz 1.75Gbps per AP
Modulation	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: BPSK, QPSK, 16QAM, 64QAM and 256QAM
Channel Bandwidth	20/40/80MHz
RF Power output	30dBm max per radio (Note: Actual max transmit power depends on local laws and regulations)
RF Power Adjustment	1dBm step
Receiver Sensitivity	2.4GHz: -101dBm (varies in different bands) 5GHz: -93dBm (varies in different bands)
Internal Antenna	Built-in omni 6dBi

LOCATION-BASED SERVICES

Wireless position tracking	Yes

* Denotes features available in a future release.

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Technical Specifications

SERVICE INTERFACES

Ethernet ports	1 10/100/1000Mbps ETH1/PoE IN port (RJ-45 connector) 1 10/100/1000Mbps

MANAGEMENT INTERFACES

Management ports	1 console port (RJ-45 connector)

POWER

Power supply	802.3at PoE
Power consumption	<25W

DIMENSIONS AND WEIGHT

Dimensions, WxDxH	276 x 246 x 90mm (10.87 x 9.69 x 3.54in)
Weight	<2.5kg (5.51lb)

ENVIRONMENTAL

Operation temperature	-40℃ to 65℃
Storage temperature	-40℃ to 85℃
Operation humidity	0% to 100% non-condensing
Storage humidity	0% to 100% non-condensing
Protection	IP67
WiFi resistance	Up to 140MPH wind gusts Up to 100MPH sustained winds

INSTALLATION

Wall-mount
Pole-mount

L2 FEATURES

IGMP snooping
VLAN features

L3 FEATURES

IPv4 address: Static IP address or DHCP reservation
IPv6 CAPWAP tunnel
ICMPv6
IPv6 address: Manual or automatic configuration
IPv6 tunnel: Manual or automatic configuration
IPv6 transparent transmission
ISATAP
Multicast: Multicast to unicast conversion
VPN pass - through

MANGEMENT

Management modes	FIT and FAT
Network management	SNMP v1/v2C/v3, Telnet, SSH, TFTP, FTP, Web management
Visualized wireless heat map analysis	Yes
Real-time spectrum analysis	Yes
Fault detection and alarm	Yes
Cloud AC management	Yes
Statistics and logs	Yes
Software update	Auto via CAPWAP Manual via web, TFTP
FAT/FIT switching	The AP working in FIT mode can switch to the FAT mode through the UT wireless AC. The AP working in FAT mode can switch to the FIT mode through a local console port or Telnet.

* Denotes features available in a future release.

Product Details

REGULATORY COMPLIANCE

Safety:
EN 55024:2010
EN 55032:2012/AC:2013
EN /IEC 60950 - 1
IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-3-2, IEC 61000-3-3

Health:
EN 50385, IC Safety Code 6

Radio:
EN300328,
EN301893
EN 301489-17
EN62311

Vibration:
GB/T 2423

Environment:
WEEE / RoHS

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