



Matrix Mesh & RF load balancing Technology

Model: AI-2295 Series

Outdoor Carrier Mesh Access Point

AI Cloud-managed controller

Application: Metropolitan-Scale Wi-Fi Mesh Networks

Mobility in Wireless Networks

- IEEE 802.11ac Wave 2 compliant and backward compatible with 802.11a/b/g/n
- Atheros Networking Processor
- 2.4 Ghz & 5 Ghz concurrent radios, 30dbm TX power
- Simultaneous 2.4Ghz 300Mbps and 5Ghz 3900Mbps for 4200Mbps of total available bandwidth
- 11 x N-type connector for Antenna
- Integrated Power-over-Ethernet (PoE)
- Fanless and ruggedized outdoor IP67 enclosure

Internet & Access Features

- Compliance with IEEE 802.11a/b/g/n/ac Wave 2 standard
- The latest Wi-Fi 5 technology features high-capacity, high-efficient, and enhanced performance
- Quad-radio MU-MIMO improves performance, expands capacities

Controller & Monitoring

- AI Cloud-managed controller.
- Controllerless technology (highly available architecture)
- Monitoring and statistics of Wi-Fi operation status on Windows/Android/iOS
- SMS-Administration

Cut-edge technology

- Matrix Mesh – Layer-2 Mesh via 802.11s Protocol
- intelligent RF load distribution (RF load-balancing)

Advanced Features

- Zero config
- Intelligent Channel Reselection
- AI Smart Roaming
- WiFi Broadcast time schedule
- AP Reboot Scheduler
- Beamforming technology
- Band steering technology

Management Features

- VLAN Tagging
Supports 802.1q SSID-to-VLAN Tagging
Cross-Band VLAN Pass-through
Management VLAN
- Spanning Tree
Supports 802.1d Spanning Tree Protocol
- Fast roaming 802.11r/k/v
- QoS (Quality of Service)
- Complaint With IEEE 802.11e Standard WMM
- Network Protocols: IPv4, IPv6, 802.1Q, 802.1p, 802.1x

SPECIFICATIONS

Type	Outdoor AP, Aluminum Case, IP67
Standards	IEEE 802.11 a/b/g/n/ac Wave 2
Quad-radio	1 x 2.4 GHz & 3 x 5 GHz
Channel Bandwidth	2.4GHz: 20 and 40 MHz 5GHz: 20, 40 and 80 MHz
Max Speed	4200 Mbps (Quad-radio)
Stream	9 x 9 MU - MIMO
Maximum sessions	4000
Concurrent sessions	400+ (Quad-radio)
Antenna	11 x Ntype connector
Antenna Coverage	360°
Ethernet Ports	4 x 10/100/1000 Ethernet ports
Power Supply	24V passive PoE Max Power consumption 24W
Tx Power	30 dBm ~ 1000 mW
Receiver Sensitivity	-96 dBm
Dimensions (L x W x H)mm	269 x 239 x 150
Weight	4.5 kg (9.9 lb.)
Operating Temperature	-40 to 75°C (-40 to 167°F)
Storage Temperature	-45 to 85°C (-49 to 185°F)
Humidity	5 to 95% (non-condensing)
Certification	CE, FCC, IC, EAC, ROHS

BASIC FEATURES

Deployment Model	AI Cloud-managed controller and controllerless technology
Wireless Security	WEP, WPA/WPA2 – PSK, WPA/WPA2-EAP with TKIP, AES Encryption
Operation Modes	AP/MAP/RFD
Multiple SSIDs	Yes
Hide/Enable/Disable SSID	Yes
Client Isolation	Yes
Coverage Threshold	Yes
Limit Max Station	Yes
Spanning Tree	Yes
VLAN Tagging	Yes
Multicast Routing	Yes
Tagged VLANs for guest wireless SSID	Yes
Wicell Wi-Fi Cloud firmware	Yes

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