



MegaMesh-NG comes in a rugged die-cast aluminum and environmentally sealed enclosure to withstand extreme outdoor environments. It is used to create point-to-point, point-tomultipoint, mesh and mobility networks with an exceptionally high throughput to enable data, voice and video applications. Infused with our patent operating system **LuceorOS**, multiple nodes are automatically linked and self-configured to form a broad mesh network and enable rapid deployment.

MegaMesh-NG provides up to three radio transceivers that can be activated on-demand to receive a wide range of external antennas and Ethernet interfaces to easily connect any IP device to the mesh network.

3 x WIMESH

ROUTER

OUTDOOR RATED



KEY FEATURES

2 x 2x2 MIM0 5GHz 802.11a/b/g/n/ac radio transceivers with useful throughput up to 500Mbps per radio

1x 2x2 MIMO 2.4GHz 802.11n transceiver

Wide range for external 2x2 MIMO antennas (up to 6 ports)

2 x RJ-45, 10/100/1000 Mbps Ethernet, auto MDI/MDIX, support passive POE

Plug-and-Play installation

Outdoor rated: IP67, -40°C to +80°C temperature range

LuceorOS manages network traffic by dynamically and intelligently selecting the best connection

MeshTool Suite software and web interface operate in tandem to configure, troubleshoot, and monitor the network architecture

Suitable for video surveillance, emergency services, public safety, industries, ports, monitoring systems, and other fixed and highly mobile networks

3D VIEWS



HARDWARE SPECIFICATIONS

CPU	Quad-core CPU ARM Cortex A7 up to 717MHz, 128 MB Nand Flash, 32MB Nor Flash and DDR3L 256 MB		
WLAN	Interface	802.11a/b/g/n 2x2 MIMO 2.4GHz	2 x 802.11a/b/g/n/ac 2x2 MIMO 5GHz
	Frequency ¹	2412 - 2482 MHz	5180 - 5825 MHz
	Modulation	DSSS, CCK, OFDM	OFDM: 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK
	Max. Physical Layer Data Rate	300 Mbps	866 Mbps
	Max. RF TX Power ^{2,3}	29 dBm	28 dBm
	RX Sensitivity ⁴	-96 dBm (@ 6 Mbps) to -70 dBm (@ MCS7, MCS15, HT40)	-96 dBm (@ 6 Mbps) to -62dBm (@ MCS9, MCS19, MCS29, HT80)



Ethernet Interfaces	2 x RJ-45, 10/100/1000BaseT, , IEEE 802.3, auto MDI/MDIX, passive POE	
Antennas	6 x N-Female connectors	
LED Indicators	1 x Power indicator 2 x Status indicator	
Button	1x push button to restore factory settings and restart the device	
Power Supply	48 VDC Passive POE	
Power Consumption ⁵	Max. 25W	
Dimensions	220 x 250 x 90 mm 8.66 x 9.84 x 3.54 in.	
Weight	2.73 Kg 6 lb.	
Temperature	-40°C to 80°C -40°F to 176° F	
Wind Resistance	250Km/h	
IP code	IP67	
Materials	Aluminum	

¹Channel, Frequency Channel, frequency and bandwidth options will vary based upon regional and local regulations

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⁴RX sensitivityTolerance is ±2 dB

⁵Power consumption depends on transceiver configuration

SOFTWARE SPECIFICATIONS

	Compliance with 802.11s Mesh networking
	Compliance with IEEE 802.1q
	Proactive link-state routing protocol for Mesh networking
	SSID-based VLAN assignment
	Service set identifier (SSID) hiding
	Automatic and manual rate adjustment
	Automatic channel scanning and interference avoidance
	Frame aggregation, including A-MPDU (Tx/Rx) and A-MSDU (Tx/Rx)
	VLAN trunk on uplink Ethernet ports
Networking	Management channel of the AP uplink port in tagged and untagged mode
	DHCP client, obtaining IP addresses through DHCP
	Tunnel data forwarding and direct data forwarding
	STA isolation in the same VLAN
	Access control lists (ACLs)
	Link Layer Discovery Protocol (LLDP)
	Network Address Translation (NAT)
	Virtual Router Redundancy Protocol (VRRP)
	Supports IPv6/ IPv4, UDP, TCP, ICMP, Telnet, SNMP, HTTP and FTP protocols
	Static IP, dynamic IP or zero-configuration deployment



	Web local management through HTTP or HTTPS
	Real-time configuration monitoring and fast fault location using the NMS
	SNMPv2c and v3
Management	System status alarm
	Network Time Protocol (NTP)
	Control and Provisioning of Wireless devices
	Remote software update
	Open system authentication
	WPA/WPA2/WPA-WPA2-PSK authentication and encryption
	Wireless intrusion detection system (WIDS) and wireless intrusion prevention system (WIPS)
	WPA/WPA2/WPA-WPA2-802.1x authentication and encryption with MAC address authentication, and Portal authentication
Security	802.1x authentication, MAC address authentication, and Portal authentication
	DHCP snooping
	IP Source Guard
	VPN / L2TP with AES encryption
	WPA, WPA2, and WPA-WPA2 support TKIP and CCMP encryption algorithms, where CCMP uses 128-bit advanced encryption standard (AES) encryption algorithm and has high security
	Priority mapping and packet scheduling based on a Wi-Fi Multimedia (WMM) profile to implement priority-based data processing and forwarding
	WMM parameter management for each radio
	WMM power saving
QoS Features	Priority mapping for upstream packets and flow-based mapping for downstream packets
	Queue mapping and scheduling
	User-based bandwidth limiting
	Adaptive bandwidth management (automatic bandwidth adjustment based on the user quantity and radio environment)

STANDARDS AND CERTIFICATIONS

	Part 15.C
	Part 15.E
	Part 15.247
	Part 15.407
FCC	Part 1.1310 & 2.1091
	Part 15.203
	Part15.207
	Part 15.205
	Part 15.209



Environmental	IEC 60529 (IP67)
Environmental	RoHs compliance

ORDERING INFORMATION

OWR-3000ACN

MegaMesh-NG with three radio transceivers : one 2.4 GHz, 2x2 MIMO, 802.11an and two 5GHz, 2x2 MIMO, 802.11ac.



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