

MR62

Single-Radio Outdoor 802.11n AP



The Meraki MR62 is an enterprise class, single-radio 802.11n cloud managed access point designed for deployments in harsh outdoor locations and industrial indoor environments. The MR62 uses advanced 802.11n technologies including MIMO and beamforming to deliver the throughput and reliable coverage required by the most demanding business applications, even in harsh environments.

MR62 and Meraki Cloud Management: A Powerful Combo

The MR62 is managed via the Meraki cloud, with an intuitive browser-based interface that lets you get up and running quickly without training or certifications. Since the MR62 is self-configuring and managed over the web, it can even be deployed at a remote location without on-site IT staff.

The MR62 is monitored 24x7 from the Meraki cloud, which delivers real-time alerts if your network encounters problems. Remote diagnostics tools also enable real-time troubleshooting over the web.

The MR62's firmware is always kept up to date from the cloud. New features, bug fixes, and enhancements are delivered seamlessly over the web, so you never have to manually download software updates or worry about missing security patches.



Product Highlights

- Ideal for harsh outdoor and industrial indoor environments
- Single radio 802.11n with up to 300 Mbps throughput
- Focused sector coverage with optional panel antennas
- Self-healing mesh routing
- Layer 7 application fingerprinting and QoS
- Built-in enterprise security, guest access, and NAC
- Self-configuring, plug-and-play deployment
- Automatic cloud-based RF optimization with spectrum analysis
- Real-time WIPS with Air Marshal

Recommended Use Cases

Outdoor coverage for corporate campuses, educational institutions, and parks

- Provide high-speed access to a large number of clients
- Mesh networking

Indoor coverage for industrial areas (e.g., warehouses, manufacturing facilities)

- Reliable coverage for scanner guns, security cameras, and POS devices
- High speed-access for portable tablets
 and laptops

Long distance point-to-point

- Build a long-distance bridge between two networks
- Two MR62s can establish up to a 20 km link using high-gain antennas

Features

Enterprise class 802.11n, up to 300 Mbps

The MR62 features a powerful 2.4 GHz radio and advanced RF design for enhanced receive sensitivity. Combined with 802.11n technologies including MIMO and beamforming, the MR62 delivers up to 300 Mbps throughput and up to 50% increased capacity compared to typical rugged enterprise-class 802.11g access points, meaning fewer access points are required for a given deployment.

Rugged industrial design

The MR62 is designed and tested for salt spray, vibration, extreme thermal conditions, shock and dust and is IP67-rated, making it ideal for extreme environments.

Application-aware traffic shaping

The MR62 includes an integrated layer 7 packet inspection, classification, and control engine, enabling you to set QoS policies based on traffic type. Prioritize your mission critical applications, while setting limits on recreational traffic, e.g. peer-to-peer and video streaming.

Automatic cloud-based RF optimization with spectrum analysis

The MR62's sophisticated, automated RF optimization means that there is no need for the dedicated hardware or RF expertise typically required to tune a wireless network. An integrated spectrum analyzer monitors the airspace for neighboring WiFi devices as well as non-802.11 interference – microwave ovens, Bluetooth headsets, etc. The Meraki cloud then automatically optimizes the MR62's channel selection, transmit power, and client connection settings, providing optimal performance even under challenging RF conditions.

Integrated enterprise security and guest access

The MR62 features integrated, easy-to-configure security technologies to provide secure connectivity for employees and guests alike. Advanced security features such as AES hardware-based encryption and WPA2-Enterprise authentication with 802.1X and Active Directory integration provide wire-like security with the convenience of wireless mobility. One-click guest isolation provides secure, Internet-only access for visitors. Our policy firewall (Identity Policy Manager) enables group or device-based, granular access policy control. PCI compliance reports check network settings against PCI requirements to simplify secure retail deployments.

Secure wireless environments using Air Marshal

Meraki wireless comes equipped with Air Marshal, a built-in wireless intrusion prevention system (WIPS) for threat detection and attack remediation. APs will scan their environment opportunistically or in real-time based on intuitive user-defined preferences. Alarms and auto-containment of malicious rogue APs are configured via flexible remediation policies, ensuring optimal security and performance in even the most challenging wireless environments.

High performance mesh

The MR62's advanced mesh technologies like multi-channel routing protocols and multiple gateway support enable scalable, high throughput coverage of hard-to-wire areas with zero configuration. Mesh also improves network reliability - in the event of a switch or cable failure, the MR62 will automatically revert to mesh mode, providing continued gateway connectivity to clients.

Self-configuring, self-optimizing, self-healing

When plugged in, the MR62 automatically connects to the Meraki cloud, downloads its configuration, and joins your network. It self optimizes, determining the ideal channel, transmit power, and client connection parameters. It also self heals, responding automatically to switch failures and other errors.

Low profile, environmentally friendly design

In addition to eliminating excess packaging and documentation, 90% of the access point materials are recyclable. A maximum power draw of only 6.5 watts and a cloud-managed architecture mean that pollution, material utilization and your electric bill are kept to a minimum.



Specifications

Radio	Security		
2.4 GHz 802.11b/g/n radio	Integrated policy firewall (Ide		
Max data rate: 300 Mbit/s	Mobile device policies		
2.4 GHz 26 dBm peak transmission power	Air Marshal: Rea	Air Marshal: Real-time WIPS	
Max transmission power is decreased for certain geographies to comply with local	Rogue AP conta	Rogue AP containment	
regulatory requirements	PCI compliance reporting		
Operating bands: FCC (US) EU (Europe)	Guest isolation	Guest isolation	
2.412-2.484 GHz 2.412-2.484 GHz	WEP, WPA, WPA	WEP, WPA, WPA2-PSK, WPA	
	TKIP and AES encryption		
802.11n Capabilities	VLAN tagging (8	802.1q)	
2 x 2 multiple input, multiple output (MIMO) with two spatial streams			
Maximal ratio combining (MRC)	Quality of Servi	ce	
Beamforming	Wireless Quality	Wireless Quality of Service (
Packet aggregation	DSCP (802.1p)	DSCP (802.1p)	
Cyclic shift diversity (CSD) support			
	Mobility		
Power	PMK and OKC c	PMK and OKC credential sup	
Power over Ethernet: 24 - 57 V (802.3af compatible)	L3 roaming		
Power consumption: 6.5 W max			
Power over Ethernet injector sold separately	LED Indicators		
	4 signal strength		
Mounting	1 Ethernet connectivity		
Mounts to walls and horizontal and vertical poles	1 power/booting	/firmware up	
Mounting hardware included	Regulatory		
Physical Security	FCC (US), IC (Canada), CE (E		
Security screw included		Anatel (Brazil), Cofetel (Mexi	
	RoHS		
Environment	- ROHS		
Operating temperature: -4°F to 122°F (-20°C to 50°C)	— Mean Time Between Failure		
IP67 environmental rating	450,000 hours		
Physical Dimensions	Warranty		
10.5" x 7.6" x 2.2" (267mm x 192mm x 57mm)	- 1 year hardware warranty wit		
Weight: 1.5 lb (680g)			
	Ordering Inform	nation	
Interfaces	MR62-HW	Meraki N	
1x 100/1000 Base-T Ethernet (RJ45) with 48V DC 802.3af PoE	POE-INJ-3-XX	Meraki 8	
Two external N-type antenna connectors	ANT-10	Meraki 5	
	ANT-13	Meraki 1	

dentity Policy Manager)

S (wireless intrusion prevention system) with alarms

A2-Enterprise with 802.1X

(WMM/802.11e)

upport for fast Layer 2 roaming

upgrade status

(Europe), C-Tick (Australia/New Zealand)

xico), TK (Turkey)

re (MTBF)

with advanced replacement included

MR62-HW	Meraki MR62 Cloud Managed AP
POE-INJ-3-XX	Meraki 802.3af Power over Ethernet Injector (XX = US, EU, UK or AU)
ANT-10	Meraki 5/7 dBi Omni Antenna, Dual-band, N-type, Set of 2
ANT-13	Meraki 11 dBi Sector Antenna, 2.4 GHz MIMO, N-type

Note: Meraki Enterprise license required.

RF Performance Table

Maximum hardware capability shown. Transmit power is configurable in increments of 1 dB and is automatically limited by the Meraki cloud to comply with local regulatory settings.

Operating Band	Operating Mode	Data Rate	TX Power dBm)	RX Sensitivity
2.4 GHz	802.11b	1 Mb/s 2 Mb/s 5.5 Mb/s 11 Mb/s	22 22 21 21	-96 -94 -95 -92
2.4 GHz	802.11g	6 Mb/s 9 Mb/s 12 Mb/s 18 Mb/s 24 Mb/s 36 Mb/s 48 Mb/s 54 Mb/s	26 26 26 25 25 25 24 23	-95 -94 -93 -93 -91 -87 -83 -81
2.4 GHz	802.11n (HT20)	MCS0/8 HT20 MCS1/9 HT20 MCS2/10 HT20 MCS3/11 HT20 MCS4/12 HT20 MCS5/13 HT20 MCS6/14 HT20 MCS6/14 HT20	21 21 21 21 21 21 21 19 18	-96 -94 -92 -89 -85 -82 -81 -79
2.4 GHz	802.11n (HT40)	MCS0/8 HT40 MCS1/9 HT40 MCS2/10 HT40 MCS3/11 HT40 MCS4/12 HT40 MCS5/13 HT40 MCS6/14 HT40 MCS6/14 HT40	21 22 21 22 21 21 21 19 18	-93 -91 -89 -86 -82 -79 -78 -78