Ruggedized, outdoor cloud-managed wireless LAN

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.

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
2.4 GHz 802.11b/g/n radio
Max data rate: 300 Mbit/s
2.4 GHz 26 dBm peak transmission power
Max transmission power is decreased for certain geographies to comply with local regulatory requirements

Operating bands:
- **FCC (US)**: 2.412-2.484 GHz
- **EU (Europe)**: 2.412-2.484 GHz

**802.11n Capabilities**
- 2 x 2 multiple input, multiple output (MIMO) with two spatial streams
- Maximal ratio combining (MRC)
- Beamforming
- Packet aggregation
- Cyclic shift diversity (CSD) support

Power
- Power over Ethernet: 24 - 57 V (802.3af compatible)
- Power consumption: 6.5 W max
- Power over Ethernet injector sold separately

Mounting
- Mounts to walls and horizontal and vertical poles
- Mounting hardware included

Physical Security
- Security screw included

Environment
- Operating temperature: -4°F to 122°F (-20°C to 50°C)
- IP67 environmental rating

Physical Dimensions
- 10.5" x 7.6" x 2.2" (267mm x 192mm x 57mm)
- Weight: 1.5 lb (680g)

Interfaces
- 1x 100/1000 Base-T Ethernet (RJ45) with 48V DC 802.3af PoE
- Two external N-type antenna connectors

Security
- Integrated policy firewall (Identity Policy Manager)
- Mobile device policies
- Air Marshal: Real-time WIPS (wireless intrusion prevention system) with alarms
- Rogue AP containment
- PCI compliance reporting
- Guest isolation
- WEP, WPA, WPA2-PSK, WPA2-Enterprise with 802.1X
- TKIP and AES encryption
- VLAN tagging (802.1q)

Quality of Service
- Wireless Quality of Service (WMM/802.11e)
- DSCP (802.1p)

Mobility
- PMK and OKC credential support for fast Layer 2 roaming
- L3 roaming

LED Indicators
- 4 signal strength
- 1 Ethernet connectivity
- 1 power/booting/firmware upgrade status

Regulatory
- FCC (US), IC (Canada), CE (Europe), C-Tick (Australia/New Zealand)
- Cofetel (Mexico), TK (Turkey)
- RoHS

Mean Time Between Failure (MTBF)
- 450,000 hours

Warranty
- 1 year hardware warranty with advanced replacement included

Ordering Information
- **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.

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### 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.

<table>
<thead>
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<th>Operating Band</th>
<th>Operating Mode</th>
<th>Data Rate</th>
<th>TX Power dBm)</th>
<th>RX Sensitivity</th>
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