CISCO Meraki

# MG Fixed Wireless Access Devices

Cisco cloud-managed fixed wireless access devices

## Overview

Cisco MG fixed wireless access devices transpose a cellular signal into wired WAN Ethernet connectivity, enabling high-speed, always-on fixed wireless access for business-critical operations in any location. Enterprise networking teams use MG cellular gateways to connect branch and campus networks in the simplest manner. Part of a modern, platform-based approach to secure networking, MG cellular gateways combine with MX security and SD-WAN appliances to secure users and infrastructure while maintaining optimal network performance.

## Quick and easy to deploy

Get fixed wireless access connectivity up and running quickly with true zero-touch provisioning. Ensure your device has the latest firmware with schedulable or automatic updates. MG cellular gateways can instantly provision primary cellular connectivity across thousands of sites at once without waiting on broadband or any change in infrastructure, enabling faster business expansion.

## Centrally manage at scale

MG devices are 100% cloud-managed through the Meraki platform. This means managing, architecting, and scaling organizations' networks can be done remotely, making the MG ideal for distributed branches, campuses, or data center locations. Easily add MG to your existing network with ease, though it works best with a full-stack MX-based Meraki network. Deploy, provision, view, and manage all of your Meraki devices in a single platform view.

## Super-fast 5G-powered SD-WAN

With up to multigigabit-level cellular connectivity, businesses can rely on the MG family of devices for a consistent experience 24/7/365 to increase business uptime and network resilience.

The MG allows businesses to confidently deploy fixed wireless access (FWA) at sites where there's no broadband coverage, the carrier coverage is initially unknown, or there's a varying level of availability and network reliability from multiple regional carriers.

## The best way to connect with 5G fixed wireless access

A network is only as good as its infrastructure, and the MG integrates deeply with the rest of the Meraki stack to provide cellular WAN connectivity to your network.

## Self-configuring for primary or backup cellular

If a certified carrier SIM card is inserted, the MG cellular gateway will bring up the cellular connection and automatically connect to the Meraki cloud, download its configuration, and join your network.

Moreover, the MG is capable of powering your entire network. Designed for optimal performance with an integrated cellular modem, the MG is your reliable cellular gateway to primary or secondary WAN connectivity.

## Industry-leading cloud management

Meraki's award-winning cloud-management architecture unifies LAN and management under a web-based dashboard and scales easily from small to large multi-site deployments with tens of thousands of devices. The Meraki dashboard provides intuitive yet powerful role-based administration, firmware updates, configuration changes, email alerts, and easy-to-audit change logs.

# MG family at-a-glance

| | MG21 | MG21E | MG41 | MG41E | MG51 | MG51E | MG52 | MG52E |
|---|---|---|---|---|---|---|---|---|
| **Best suited for** | Failover connectivity | | Critical failover or primary connectivity | | Primary connectivity | | Future-ready advanced primary connectivity | |
| **Examples** | Branch failover | | Pop-up locations, emergency services | | Branch primary, high criticality application support | | Branch primary or campus, high criticality application support | |
| **Cellular technology** | 4G LTE Advanced | | 4G LTE Advanced Pro | | 5G Non-Standalone (NSA) | | 5G Standalone (SA) | |
| **Radio** | Single modem, single radio (Single SIM, single standby) | | | | | | | |
| **Private cellular network support** | Private 4G | | | | Private 5G with 4G core | | Private 5G with native 5G core | |
| **Modem** | Cat 6 | | Cat 18 | | 5G NSA | | 5G SA | |
| **Throughput (download/ upload)** | 300 Mbps / 50 Mbps | | 1.2 Gbps / 150 Mbps | | 2 Gbps / 300 Mbps | | | |
| **SIM profiles** | 2 (active/passive) | | | | | | | |
| **SIM slots (4FF "nano")** | 1 | | 2 | | | | Physical SIM: 2 Cloud-managed eSIM: 1 | |
| **Antenna** | Internal | External | Internal | External | Internal | External | Internal | External |
| **Power options** | DC or PoE | | | | | | | |
| **Ports** | 1 × 1 GbE port (PoE) 1 × 1 GbE port (non-PoE) | | 2 × 1 GbE port (PoE) | | 2 × 2.5 GbE port (PoE) | | | |
| **Water resistance** | IP67 | | | | | | | |
| **Weight** | 489 g | 497 g | 670 g | 670 g | 560 g | 717 g | 560 g | 717 g |
| **Dimensions (device)** | 160.5 x 160.5 x 34.5 (mm) 6.3 × 6.3 x 1.4 (in) | 165.7 x 160.5 x 34.5 (mm) 6.5 × 6.3 x 1.4 (in) | 168 × 168 x 35 (mm) 6.6 × 6.6 x 1.4 (in) | 168 × 168 x 35 (mm) 6.6 × 6.6 x 1.4 (in) | 173 × 173 x 36.5 (mm) 6.8 × 6.8 x 1.4 (in) | 173 × 173 x 36.5 (mm) 6.8 × 6.8 x 1.4 (in) | 173 × 173 x 36.5 (mm) 6.8 × 6.8 x 1.4 (in) | 173 × 173 x 36.5 (mm) 6.8 × 6.8 x 1.4 (in) |

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|---|---|---|---|---|---|---|---|---|
| **Dimensions (external antennas)** | - | 129 × 19.5 x 12.3 (mm)  5 × 0.8 x 0.5 (in) | - | 144 × 26.5 x 12.3 (mm)  5.7 × 1 x 0.5 (in) | - | 144 × 26.5 x 12.3 (mm)  5.7 × 1 x 0.5 (in) | - | 144 × 26.5 x 12.3 (mm)  5.7 × 1 x 0.5 (in) |
| **Power supply** | 12V/1A, 48-57V DC/0.35A | | | | | | | |
| **Operating temperature** | -22°F to 122°F (-30°C to 50°C) | | | | | | | |
| **Humidity** | 5% to 95% non-condensing | | | | | | | |
| **Device management** | Meraki dashboard (GUI)  API | | | | | | | |
| **Provisioning** | True zero-touch provisioning | | | | | | | |
| **WAN service out of the box** | - | | | | instant bootstrap data | | | |
| **Firmware management** | Automatic and scheduling control | | | | | | | |
| **Full-stack capabilities that complement MG** | SD-WAN  Security with next-generation firewall  Access  IoT  Switching | | | | | | | |
| **Remote diagnostics** | Email, SMS, and mobile push notification alerts  Ping, trace route, cable testing, and link failure detection with alerting  Remote packet capture  Combined event and configuration change logs with instant search  DM logging via local status page | | | | | | | |
| **Mounting options** | Mount anywhere: Ceiling, wall, or pole with all-in-one mounting bracket included | | | | | | | |
| **IPv4v6** | ✓ | | ✓ | | ✓ | | ✓ | |
| **5G with LTE Failover** | ✕ | | ✕ | | ✓ | | ✓ | |

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|---|---|---|---|---|---|---|---|---|
| IP passthrough | ✕ | | ✓ | | ✓ | | ✓ | |
| Dual SIM/auto SIM failover | ✕ | | ✓ | | ✓ | | ✓ | |
| FirstNet band 14 compatible | ✕ | | ✓ | | ✓ | | ✓ | |
| Signal strength info and graphs | ✓ | | ✓ | | ✓ | | ✓ | |
| Band information | ✓ | | ✓ | | ✓ | | ✓ | |
| Custom APN configuration | ✓ | | ✓ | | ✓ | | ✓ | |
| Auto APN configuration | ✓ | | ✓ | | ✓ | | ✓ | |
| Included in box | MG device (1)<br><br>Mounting plate (1) | MG device (1)<br><br>Mounting plate (1)<br><br>Dipole external antennas (2) | MG device (1)<br><br>Mounting plate (1) | MG device (1)<br><br>Mounting plate (1)<br><br>Dipole external antennas (4) | MG device (1)<br><br>Mounting plate (1) | MG device (1)<br><br>Mounting plate (1)<br><br>Dipole external antennas (4) | MG device (1)<br><br>Mounting plate (1) | MG device (1)<br><br>Mounting plate (1)<br><br>Dipole external antennas (4) |
| Compatible accessories | Low-voltage power adapter<br><br>MA-ANT-C1-B cellular patch antenna for MG21<br><br>MA-ANT-C1-A external cellular dipole antennas for MG21<br><br>MA-PWR-30W-XX standard power adapter (regional plugs per SKU)<br><br>MA-INJ-4 gigabit 802.3at PoE injector<br><br>MA-ANT-C2-A external cellular dipole antennas included with MG41E, MG51E<br><br>MA-ANT-C2-B available for MG52E<br><br>MA-ANT-DUAL-C1 cellular patch antenna for the MG41E, MG51E<br>(boost signal gain for remote locations far from a tower) | | | | | | | |
| Warranty | Full lifetime hardware warranty with next-day advanced replacement included | | | | | | | |

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|---|---|---|---|---|---|---|---|---|
| Carrier certifications | AT&T, Verizon, T-Mobile, and more | | | | | | | |
| Other certifications | PTCRB (U.S.), RCM (ANZ, APAC), GCF (EU) | | | | | | | |
| Band compatibility | Link to list of compatible bands | | | | | | | |

## Subscription Licensing

Every MG subscription is available for any term length starting from 1 year up to 10 years, for more information see our SKU list and feature highlights.

For more information on subscription licensing, please visit our Licensing Overview.

**To learn more, visit Meraki.com**