



FAMILY DATASHEET

MG Cellular Gateways

Overview

Meraki MG cellular gateways transpose a cellular signal into wired WAN Ethernet connectivity, enabling high-speed, always-on cellular network connectivity for business-critical operations. Networking teams use MG gateways to connect branch and campus networks in the simplest manner. Part of a modern SD-WAN architecture requiring strong security and reliable performance, 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 cellular 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 the MG to your existing Meraki SD-WAN with ease. Deploy, provision, view, and manage all of your Meraki devices in a single platform view.

Super-fast 5G-powered SD-WAN

With up to multi-gigabit-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 to 5G

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 |
|---------------------------------------|---|---|---|--|---|---|
| |  |  |  |  |  |  |
| Best for | Failover connectivity | | Critical failover or primary connectivity | | Advanced primary connectivity | |
| Examples | Branch failover | | Pop-up locations, emergency services | | Branch primary, high criticality application support | |
| Modem | Cat 6 | | Cat 18 | | Cat 20 | |
| Throughput (download/upload) | 300 Mbps/50 Mbps | | 1.2 Gbps/150 Mbps | | 2 Gbps/300Mbps | |
| SIM slots (4FF "nano") | 2 | | | | | |
| Antenna | Integrated | External | Integrated | External | Integrated | External |
| Power options | DC or PoE | | | | | |
| PoE ports | 2× GbE ports | | | | 2× 2.5 GbE ports | |
| Water and dust resistance | IP67 | | | | | |
| Weight | 489 g | 497 g | 670 g | | 560 g | 717 g |
| Dimensions | 160.5 × 160.5 x 34.5 (mm) 6.3 × 6.3 × 1.4 (in) | 165.7 × 160.5 x 34.5 (mm) 6.5 × 6.3 × 1.4 (in) | 168 × 168 × 35 (mm) 6.6 × 6.6 × 1.4 (in) | | 173 × 173 × 36.5 (mm) 6.8 × 6.8 × 1.4 (in) | |
| Dimensions (external antennas) | - | 129 × 19.5 × 12.3 (mm) 5 × 0.8 × 0.5 (in) | - | 144 × 26.5 x 12.3 (mm) 5.7 × 1 × 0.5 (in) | - | 144 × 26.5 x 12.3 (mm) 5.7 × 1 × 0.5 (in) |
| Power supply | 12V/1A, 48-57V DC/0.35A | | | | | |
| Operating temperature | -22 °F to 122 °F (-30 °C to 50 °C) | | | | | |

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|---|--|---|---|--|---|---|
| |  |  |  |  |  |  |
| Humidity | 5% to 95% non-condensing | | | | | |
| Device management | Meraki dashboard (GUI) API | | | | | |
| Deployment | True zero-touch provisioning | | | | | |
| Firmware management | Automatic and scheduling control | | | | | |
| Other Meraki technologies available on the same platform | SD-WAN and security Access IoT | | | | | |
| 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 | Ceiling, wall, or pole with all-in-one mounting bracket included | | | | | |
| IP passthrough | × | × | × | × | ✓ | ✓ |
| IPv6 enabled | × | × | × | × | ✓ | ✓ |
| 5G support with LTE failover | × | × | × | × | ✓ | ✓ |
| Dual SIM/auto SIM failover | × | × | ✓ | ✓ | ✓ | ✓ |
| FirstNet band 14 compatible | × | × | ✓ | ✓ | ✓ | ✓ |
| Signal strength info and graphs | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Band information | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

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|---------------------------------|--|---|---|--|---|---|
| |  |  |  |  |  |  |
| Custom APN configuration | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Auto APN configuration | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Included in box | MG device (1) Mounting plate (1) | MG device (1) Mounting plate (1) Dipole external antennas (2) | MG device (1) Mounting plate (1) | MG device (1) Mounting plate (1) Dipole external antennas (4) | MG device (1) Mounting plate (1) | MG device (1) Mounting plate (1) Dipole external antennas (4) |
| Compatible accessories | Low-voltage power adapter MA-ANT-C1-B cellular patch antenna for MG21 MA-ANT-C1-A external cellular dipole antennas for MG21 MA-PWR-30W-XX standard power adapter (Regional plugs per SKU) MA-INJ-4 gigabit 802.3at PoE injector MA-ANT-C2-A external cellular dipole antennas included with MG41E MA-ANT-DUAL-C1 cellular patch antenna for the MG41E (boost signal gain for remote locations far from a tower) | | | | | |
| Warranty | Full lifetime hardware warranty with next-day advanced replacement included | | | | | |
| 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 | | | | | |

To learn more,
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