

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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	MG21	MG21E	MG41	MG41E	MG51	MG51E
						
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					

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