

MG21 Series

Cloud-managed cellular gateway



Overview

MG21 is a Meraki cellular gateway device. It will allow customers to use Meraki gear with cellular as a primary active uplink. MG21 only has a cellular connection as its uplink and acts as a wired uplink to devices that are attached to it (i.e., MX or any other router). MG21 can work with any routing device, Meraki or non-Meraki. With additional 802.3af compatibility, the MG can be placed anywhere and powered via power over ethernet (PoE) like any access point. This gives users the option for optimal physical placement for signal quality – a cornerstone for wireless WAN communications.

MG series and Meraki cloud management: a powerful combo

All Meraki devices are managed via the Meraki cloud, with an intuitive browser-based interface. The MG series are self-configuring and managed over the web, and can be rapidly deployed at remote locations without any assistance from end-users.

Meraki Cloud services monitor all devices 24x7 and deliver real-time alerts if any devices encounters a problem. Remote diagnostics tools enable real-time troubleshooting through any web browser. New features and enhancements are delivered seamlessly over the web, so you never have to manually download software updates or worry about missing critical security vulnerability patches.

Product highlights

- 2 GbE ports for routers in HA mode
- 1 802.3af compliant power over ethernet port to power the MG in challenging locations
- Local dashboard for easy initial device configuration
- Self-configuring, plug-and-play deployment
- Sleek, low profile design
- Built-in CAT 6 LTE connectivity
- IP67 rated for environments of all types

Models: MG21-HW-NA, MG21-HW-WW

Recommended use cases	Wired uplink to MX or any third-party router
Recommended downstream devices	Up to 2 devices
LAN Interfaces	2
PoE IN Port	1 * 802.3af compatible
Dimensions (w x d x h)	160.45 x 160.45 x 34.45mm
Weight (without accessories)	487g
Power supply	12V/1A, 48-57V DC/0.35A
Operating temperature	4°F to 113°F (-20°C to 45°C)
Humidity	5% to 95% non-condensing

Models: MG21E-HW-NA, MG21E-HW-WW

Recommended use cases	Wired uplink to MX
Recommended downstream devices	Up to 2 devices
LAN Interfaces	2
PoE IN Port	1 * 802.3af compatible
Dimensions (w x d x h)	165.7 x 160.45 x 34.45mm
Weight (without accessories)	489g
Power supply	12V/1A, 48-57V DC/0.35A
Operating temperature	4°F to 113°F (-20°C to 45°C)
Humidity	5% to 95% non-condensing

Accessories

Antenna types: Dipole and patch

Antenna gain (in dBi): 2.72dBi



Features

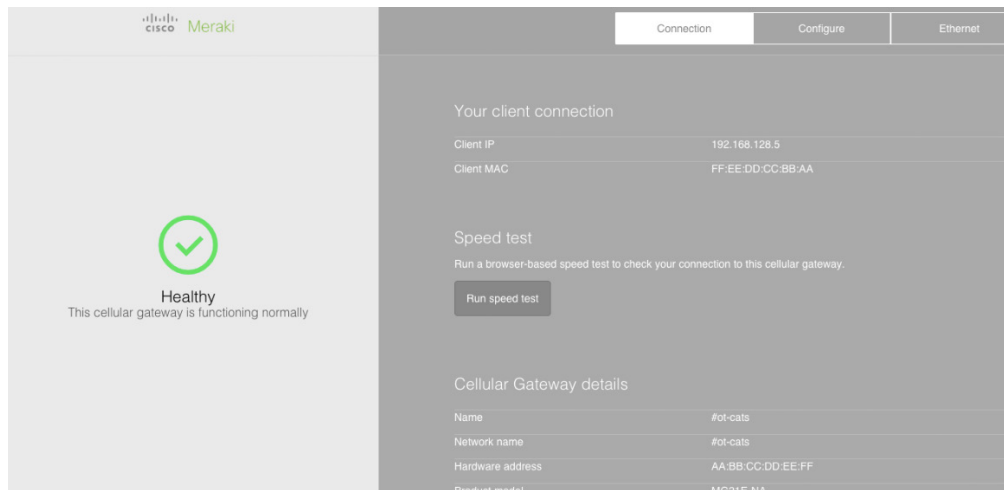
Self-configuring, cellular primary

If a certified carrier SIM card is inserted, the MG21 brings up the cellular connection and automatically connects to the Meraki cloud, downloads its configuration, and joins your network.

Industry-leading cloud management

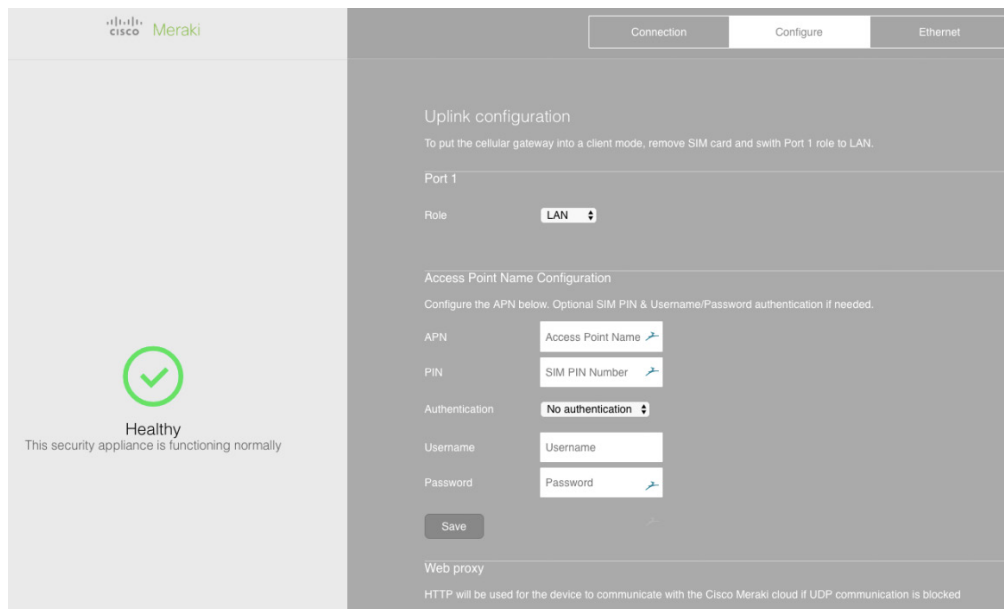
Meraki's award-winning cloud management architecture unifies LAN and management under a web based dashboard, and scales easily from small deployments to large, multi-site deployments with tens of thousands of devices. The Meraki dashboard provides intuitive yet powerful role-based administration, firmware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

Local Status Page (LSP)



The screenshot shows the Local Status Page (LSP) for a Meraki MG21 device. The page is divided into two main sections: a left sidebar and a right main content area. The sidebar features the Cisco Meraki logo at the top and a large green checkmark icon with the word "Healthy" below it, indicating that the cellular gateway is functioning normally. The main content area has three tabs: "Connection", "Configure", and "Ethernet". The "Connection" tab is active, displaying the following information:

- Your client connection:**
 - Client IP: 192.168.128.5
 - Client MAC: FF:EE:DD:CC:BB:AA
- Speed test:**
 - Run a browser-based speed test to check your connection to this cellular gateway.
 - A button labeled "Run speed test" is present.
- Cellular Gateway details:**
 - Name: /ot-cats
 - Network name: /ot-cats
 - Hardware address: AA:BB:CC:DD:EE:FF
 - Product model: MG21E-NA



The screenshot shows the Local Status Page (LSP) for a Meraki MG21 device, specifically the "Configure" tab. The sidebar is identical to the previous screenshot, showing the "Healthy" status. The main content area has three tabs: "Connection", "Configure", and "Ethernet". The "Configure" tab is active, displaying the following configuration options:

- Uplink configuration:**
 - To put the cellular gateway into a client mode, remove SIM card and switch Port 1 role to LAN.
 - Port 1 Role: LAN (selected from a dropdown menu)
- Access Point Name Configuration:**
 - Configure the APN below. Optional SIM PIN & Username/Password authentication if needed.
 - APN: Access Point Name (input field)
 - PIN: SIM PIN Number (input field)
 - Authentication: No authentication (selected from a dropdown menu)
 - Username: Username (input field)
 - Password: Password (input field)
 - A "Save" button is present.
- Web proxy:**
 - HTTP will be used for the device to communicate with the Cisco Meraki cloud if UDP communication is blocked.

MG21 specifications

Performance

300 Mbps CAT 6 LTE integrated modem

Interfaces

1 * PoE IN

LAN interfaces: 1 x GbE

1 x CAT 6 LTE modem for cellular connectivity

Monitoring and reporting

Throughput, connectivity monitoring

Org-level change logs for compliance and change management

Environmental specifications

Power: 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

Desktop or wall mount or ceiling mount
(all standard mounting hardware included)

Remote diagnostics

Live remote packet capture

Real-time diagnostic and troubleshooting tools

Management

Managed via the web using the Meraki Cloud Controller

Single pane of glass management of wired and wireless networks

Zero-touch remote deployment (no staging needed)

Automatic firmware upgrades and security patches

Centralized policy management

Org-level two-factor authentication and single sign-on

Role based administration with change logging and alerts

Integrated cellular

LTE bands: (North America) 2,4,5,12,13,17,29. (Worldwide*)
1,3,5,7,8,18,19,20,26,28

300 Mbps CAT 6 LTE

Additional regulatory information: PTCRB (US),
RCM (ANZ, APAC), GCF (EU)

Supported UICC/SIM

1 * external SIM card

Regulatory

FCC (US)

CB (IEC)

CISPR (Australia/New Zealand)

PTCRB (North America)

RCM (Australia/New Zealand, Asia Pacific)

GCF (EU)

Warranty

Full lifetime hardware warranty with next-day
advanced replacement included.

Included in box

MG21 (North America) 1 x MG21-HW-NA	1 x Mounting plate and screw set
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MG21 (World wide) 1 x MG21-HW-WW	1 x Mounting plate and screw set
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MG21E (North America) 1 x MG21E-HW-NA	1 x Mounting plate and screw set 2 x dipole antennas
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MG21E (World wide) 1 x MG21E-HW-WW	1 x Mounting plate and screw set 2 x dipole antennas
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