

Cisco Meraki MG41-HW

Cloud-Managed Cat 18 LTE Cellular Gateway (Internal Antenna)

DATASHEET

Product Overview: The Cisco Meraki MG41-HW is an IP67-rated cloud-managed cellular gateway equipped with an embedded LTE Cat 18 modem. Designed to translate cellular signals into an Ethernet handoff for branch networks, it provides high-speed wireless WAN connectivity up to 1.2 Gbps downlink. With 4x4 DL MIMO, 5-carrier aggregation (5CA), dual SIM automatic failover, IP67 weatherproofing, and PoE powering, the MG41-HW can be placed outdoors or in optimal signal locations regardless of where the main network rack resides.

1.2 Gbps

MAX DL THROUGHPUT

LTE Cat 18

MODEM CATEGORY

Dual SIM

AUTO-FAILOVER NANO SIM

IP67 Rated

OUTDOOR WEATHERPROOF

CELLULAR RADIO & MODEM SPECIFICATIONS

Parameter	Specification Details
Modem Technology	Integrated LTE Cat 18 / LTE-Advanced Pro modem
Peak Data Speeds	1.2 Gbps Downlink (DL) / 150 Mbps Uplink (UL)
Carrier Aggregation & MIMO	Downlink 5CA (5-Carrier Aggregation) & Uplink 2CA 4x4 Downlink MIMO
Antenna Type	4x Internal high-gain omni-directional cellular antennas
SIM Card Slots	2x Nano-SIM (4FF) slots with automatic carrier failover & remote dashboard switching
Specialized Spectrum	Supports Private LTE / CBRS (Band 48), FirstNet (Band 14), and Extended Bands 66 & 71

INTERFACES & NETWORKING

LAN Interfaces	2x 10/100/1000BASE-T RJ45 (1x Dedicated GbE LAN, 1x Convertible LAN/WAN)
Multi-Router Handoff	Supports 2 separate downstream router connections (e.g., MX High Availability pairs)
Mode of Operation	IP Pass-through mode (transparent cell-to-Ethernet gateway)
Telemetry Data Usage	6–8 MB per day when idle for cloud telemetry and management

PHYSICAL & ENVIRONMENTAL CHARACTERISTICS

Dimensions (W × D × H)	168 mm × 168 mm × 35 mm (6.61" × 6.61" × 1.38")
Weight	670 g (1.48 lbs) without mounting accessories
Enclosure Rating	IP67 weather-sealed enclosure (UV resistant, dust and water protected)

KEY SOFTWARE & CELLULAR WAN CAPABILITIES

Optimal Antenna Placement

Separates cellular reception from the main equipment room, allowing the MG41 to be mounted wherever signal quality is highest (outdoors, rooftops, or upper floors).

IP67 Outdoor

PoE Powered

Auto-SIM Failover & Dual SIM

Dual Nano-SIM support enables seamless primary and secondary carrier switching based on data caps, signal degradation, or connection outages.

Dual Nano SIM

Auto-Failover

High Availability Router Sharing

Two Gigabit LAN handoff ports allow a single MG41 gateway to provide redundant cellular uplinks across a dual-MX active/warm-spares firewall pair.

Dual LAN Ports

MX HA Compatible

Meraki Cloud Telemetry

Real-time and 30-day historical cellular signal metrics (RSRP, RSRQ, SINR), automated carrier band diagnostic tools, and remote packet capture.

Signal Insights

Remote Capture

SUPPORTED CELLULAR BANDS & CARRIER CERTIFICATIONS

Category	Details
LTE Frequency Bands	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14 (FirstNet), B17, B18, B19, B20, B25, B26, B28, B29, B30, B38, B39, B40, B41, B42, B43, B48 (CBRS), B66, B71
UMTS / 3G Bands	B1 (2100), B2 (1900), B4 (AWS), B5 (850), B8 (900), B9 (1700), B19 (800)
Global Certifications	PTCRB (North America), GCF (Europe/Global), RCM (Australia/New Zealand)
Certified Carriers	AT&T, AT&T FirstNet, Verizon Wireless, T-Mobile, Bell, Telus, Optus, Telstra, Spark NZ, Vodafone NZ, NTT DoCoMo, KDDI

ORDERING INFORMATION & ACCESSORIES

Part Number	Description
MG41-HW	Cisco Meraki MG41 LTE Cat 18 Cellular Gateway (Internal Antennas)
MG41E-HW	Cisco Meraki MG41E LTE Cat 18 Cellular Gateway (External Antennas Version)
LIC-MG41-1YR	Cisco Meraki MG41 Enterprise License and Support (1 Year)
LIC-MG41-3YR	Cisco Meraki MG41 Enterprise License and Support (3 Years)
MA-INJ-4-US	Cisco Meraki 802.3af Power over Ethernet Injector

Warranty & Cloud Support: The MG41-HW includes Cisco Meraki's standard limited lifetime hardware warranty with Advanced Next Business Day (NBD) replacement, alongside 24x7 phone support and continuous automated cloud firmware updates under an active subscription license.