

MachineQ Area 8c Gateway, Gen 2

Indoor IoT Gateway



The Gen 2 Area 8c gateway connects your temperature monitoring sensors to Crunchtime Ops Execution over LoRaWAN®. It provides secure and reliable connectivity for scaled, enterprise-grade deployments in diverse indoor settings. Built by the team managing the largest LoRaWAN deployments globally, the Area 8c can process millions of packets per day and support up to 10,000 devices. The gateway is RF optimized for best-in-class propagation and supports packet caching to mitigate data loss in the event of backhaul outages.

The Gen 2 gateway is a white square unit with a QR code printed on the front and a single status light in a black notch at the front edge.

KEY ENHANCEMENTS

- **Simplified installation.** Supports a power supply unit (PSU), Power over Ethernet (PoE), or daisy chainable PoE, and includes hardware for simple mounting on ceilings, walls, or any flat surface
- **Enhanced reliability.** Supports Ethernet and cellular backhaul with optional dual LTE SIM and automated network failover logic*
- **Increased flexibility.** Includes 2.4 GHz low energy, enabling additional IoT use cases and increased scalability
- **Improved performance.** Increased sensitivity and capacity enable gateways to handle more transmissions with greater reliability and efficiency

*Gateways come with a single LTE SIM by default. Contact Crunchtime Support about dual SIM.

POWER OPTIONS

The Gen 2 gateway can be powered three ways. You can identify the power source from the cables connected to the unit.

Power over Ethernet	Only an Ethernet cable is connected and there is no power adapter
Ethernet with wall power	An Ethernet cable and a wall adapter are both connected
LTE with wall power	Only a wall adapter is connected and there is no Ethernet cable

TECHNICAL SPECIFICATIONS

Model Number	GII-AD-B
Power	802.3at Type 2 or 24 W 48 V passive PoE
User Interface	Single RGB LED status indicator, reed switch
LoRaWAN Region	US915
LoRa Receive Sensitivity	Typical -140 dBm @ SF12, 125 KHz
Install Location	Indoor
Operating Temperature	0°C to 50°C
Storage Temperature	-10°C to 70°C
Dimensions (L x W x H)	223 x 223 x 45 mm

STATUS LIGHT

The single status light at the front edge shows where the gateway is in its startup and connection sequence.

Off	No power
Solid red	Initial power on
Breathing white	Booting
Breathing blue	Attempting to connect to the network
Solid blue	Connected to the network

A gateway that has been installed successfully shows a solid blue light.

WHAT'S IN THE BOX AND RELATED PRODUCTS

In the box	Gateway, external antenna, mounting hardware, and mounting plate
Sold separately	Power supply (SIK-AG-B), 10 ft Ethernet patch cable (SIK-AF-B), and DC blocker (SIK-AD-B). Available individually or as the SIK-AA-B accessory kit

For deployments outside the US and Canada, contact Crunchtime Support.