Field 16c

16-CHANNEL LoRa® OUTDOOR GATEWAY

Experience reliable, scalable connectivity for long-range outdoor deployments.

Models available to support both ethernet and cellular backhaul requirements:
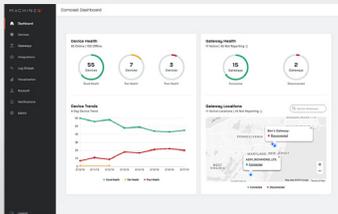
STARTING AT:

$950.⁰⁰

For cellular backhaul, purchase cell connectivity for $9.95/mo or backup for $4.95/mo, billed annually (Provider: AT&T)

MachineQ Enterprise Platform License $99.⁹⁵/month

Use MQcentral and our robust APIs to manage your network and easily deploy solutions at scale.

Access the Data You Need in Minutes

Gather and transmit data at scale with this low-cost, long-range LoRaWAN® gateway by MachineQ. The Field 16c is an outdoor-rated, plug-and-play gateway optimized for localized deployments and offering the same robust enterprise-grade connectivity, long-range capacity and deep propagation that defines the MachineQ network.

Ideal for enterprises and operators who require a full-featured outdoor gateway, this model comes outfitted with a weather-resistant IP67-rated exterior casing built for the most demanding outdoor use cases. To minimize cost and installation complexity, the Field 16c is designed with internal antennas for the 3G/4G modem and GPS receiver.

Activate and deploy an enterprise-ready network with our robust APIs or through leveraging MQcentral, MachineQ's easy-to-use network management portal. Seamlessly add devices at scale as you experience the benefit of nearly instantaneous data on the assets and areas you care about. With the Field 16c's flexible backhaul options (ETH / 3G / 4G) you can ensure your data is always secure.

Features & Benefits

- RF optimized and certified for best-in-class propagation reducing hardware expenditure

- Supports millions of uplinks per day ensuring all sensor data is received and processed

- Automated failover logic and payload caching to reduce loss of data due to network outages

- End-to-end encryption from sensor to gateway, plus sensor payloads and wireless metadata

- Compact, lightweight design is targeted at outdoor installations which dictate a small form factor and low power consumption.

- Durable in harsh environments, with IP67-rated casing, operational in temperatures that range from -40°C to +60°C

MACHINEQ™
A COMCAST COMPANY

Field 16c

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TECHNICAL SPECIFICATIONS

TX POWER

Up to 27dBm

POWER

-48VDC or PoE (802.3at)

INTERFACES

Ethernet Backhaul RJ-45
Internal GPS/Cellular Backhaul
(3G/4G) antenna
LoRa® Antenna

ANTENNAS

N-Type

CHANNELS

16

CONNECTIVITY

LoRa®, Ethernet, 3G/4G, GPS

DUPLEX

Full

INSTALLATION LOCATION

Outdoor

MEMORY

1024Mbit RAM

OPERATING TEMPERATURE

-40°C to +60°C (-40°F to +140°F) at sea
level Including solar loading

OPERATING ALTITUDE

-60 m to 4,000 m (-197 ft to 13,123 ft)

OPERATIONAL HUMIDITY

10% to 100% condensing

SAFETY

UL60950-1

REGULATORY

FCC Part 15.247, 109, 209

WHAT'S IN THE BOX

Field 16c
Mounting Bracket
Ethernet Weatherproofing Adapter
SIM Card (If Cell Backhaul is selected)
Internal GPS antenna
Internal Cellular Antenna

SOLD SEPARATELY

PoE Injector
LMR400 Antenna Cable
External LoRa® antenna
Pole mounting kit

For EU868, AS923 and other international deployments, please contact
info@MachineQ.com for more details.
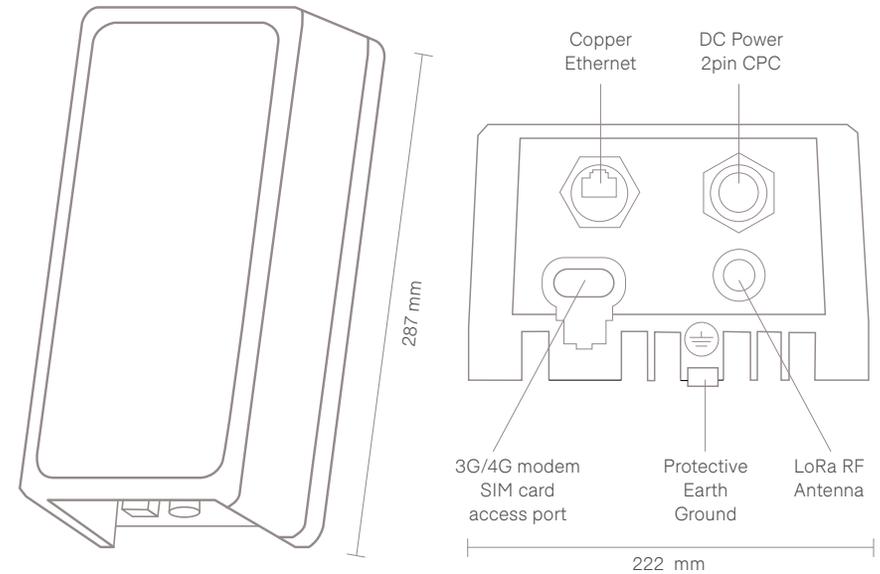
HARDWARE SPECIFICATIONS

DIMENSIONS & WEIGHT

222 mm wide x 101 mm deep
x 287mm tall
5.1kg

EXTERNAL ANTENNA OPTIONS:

3db, 5db, 8db

287 mm

Copper Ethernet
DC Power 2pin CPC
3G/4G modem SIM card access port
Protective Earth Ground
LoRa RF Antenna

222 mm

Partner with us.

To learn more, contact us at **Info@MachineQ.com**
or visit **MachineQ.com.**

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