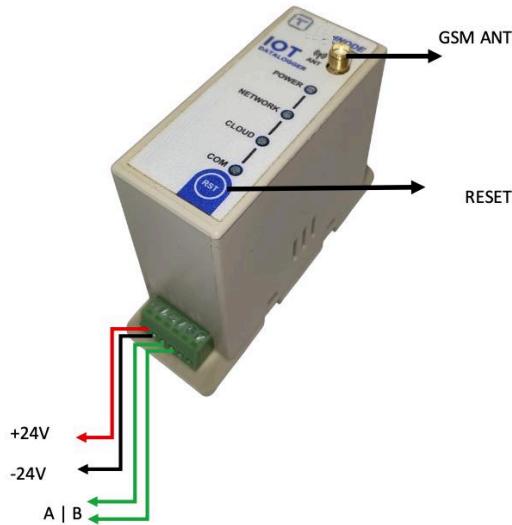


MacEdge-Type 2 Overview



MacEdge Type 2 is a compact and rugged 4G industrial gateway designed to connect remote assets directly to the cloud.

Built for reliable field performance, it ensures seamless data communication for smart infrastructure, industrial automation, and environmental monitoring. With intelligent edge processing and secure cloud integration, MacEdge Type 2 acts as the brain of your connected ecosystem.

Interface

RS485

Wireless Technology



Features

4G LTE Connectivity

High-speed M2M data communication

IP35-Rated Enclosure

Designed for industrial & harsh environments

Plug & Play Setup

Standard SIM card interface

Supports Macnman Beam Protocol

Direct control, & local device-to-device actions

Optional Onboard Data Buffering

To prevent data loss in case of network downtime

Edge Processing *

Local data filtering, logic control

Supports periodic, threshold-based, & event-driven uplinks

Remote Configuration

Device management, data push support

Flexible Mounting

Wall or DIN-rail mounting for industrial installations

Secure Communication

Supports MQTT, HTTP for flexible integration

Specifications

General Specifications

Product Brand	Macnman Technologies Pvt Ltd
Interface Available	1 X RS485
4G module	LTE 4G Single Sim
Host SoC	nRF53 Series
Repeatability	±0.1 % of reading
Connectivity Supports	4G , 3G , 2G
Cloud platforms	MQTT , HTTP
Response Time (95 %)	< 250 ms
Emissivity Adjustment	0.10 – 1.00 (configurable)
Power Supply	12 – 24 V DC
Power Consumption	< 50 mA (typical)

Wireless Transmission

Technology	Cellular
GNSS	Optional
Supported Bands	B1, B3, B5, B8, B34, B38, B39, B40, B41
Tx Power	16 dBm @ 868 MHz 20 dBm @ 915 MHz 19 dBm @ 470 MHz
Sensitivity	-137 dBm @ 300 bps
Activation	OTAA
Antenna	Internal & External

Led Status

LED Type	1 Internal Multi-Color LED
Solid Blue	Device is connected with Maya App
Flashing Blue	OTA (Over-the-Air) update in progress
Slow Blinking Green	Attempting to connect to the LoRaWAN® network
Single Red Blink	A confirmed parameter of MacSync is being modified

Configuration

Configuration	Via NodeX platform or Maya Android App
Maya Fatures	Threshold / Trigger / Sample based alarm triggers
Stored Records *	30,000 Records (accessible via Maya)
Remote Configuration	Yes - JSON format Data

Physical Characteristics

Power Supply	12-24 V DC
Battery Life*	Up to 10+ years (10-minute interval) ~5.8 years (SF10, IN865)
Operating Temp	-30°C to +70°C
Humidity Range	0% to 100% RH (non-condensing)
Ingress Protection	IP35 standard (IP67 optional variant)
Housing Material	Glass Field Nylon
Color	Matte White

Weight	~240g (with 19Ah battery)
Dimensions	Approx. 65 mm X 42 mm X 43 mm (customizable branding available)
Mounting Options	Wall mount (screw), 3M adhesive, cable tie slots

Certifications

Regulatory	WPC
Environmental	RoHS compliant

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