

## miro Edge Outdoor mioty®

Cost-effective family of outdoor mioty® base stations for 868 MHz frequency band



### Description

**miro Edge Outdoor mioty®** is an OEM/white-label product family of affordable, fully mioty® compatible gateways. Encased in an IP65 waterproof housing, this device is designed for large scale outdoor installations. The small form-factor, integrated interfaces such as Ethernet, Power over Ethernet (PoE), Mini PCIe, and its underlying OpenWRT based Linux OS enable seamless integration of these gateways into any infrastructure.

Utilizing the built-in web-frontend, the base station can be configured to communicate with any mioty® compatible service server.

The gateway also offers a remote management system, which can be integrated into the customers IT infrastructure. The RMS supports firmware-over-the-air update (FUOTA), remote access and versatile real-time device health information.

### Features

- ▶ Support for 868 MHz and EU1 profile
- ▶ IP65 waterproof housing
- ▶ Modular design: up to 4 × Mini PCIe slots
- ▶ Ethernet, PoE, USB, Mini PCIe
- ▶ Optional cellular connectivity (3G/4G)
- ▶ Cellular SIM/eSIM support
- ▶ Remote Management System
- ▶ Preconfigured or web-based configuration
- ▶ Customer specific branding and configuration

### Applications

- ▶ Smart Metering / Smart Buildings
- ▶ Smart Agriculture
- ▶ Large scale network deployments
- ▶ Industry 4.0
- ▶ Healthcare
- ▶ Supply Chain & Logistics
- ▶ Facility Management

## Document Information

### About

File name	Document type	Date	Revision
DS miro Edge Outdoor mioty®	Datasheet	Datasheet	1.1

### Revision history

Date	Release	Changes
2026/04/08	1.0	Initial revision
2026/04/08	1.1	Added CE and minor cosmetical changes

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# Connectors and Interfaces

<b>1</b>	Air pressure compensation	<b>4</b>	Ethernet/PoE (optional)
<b>2</b>	Power Indicator	<b>5</b>	LTE antenna (optional)
<b>3</b>	Power Connector (optional)	<b>6</b>	mioty® antenna

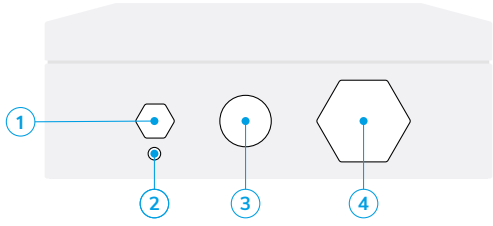


Figure 1: Interfaces Bottom

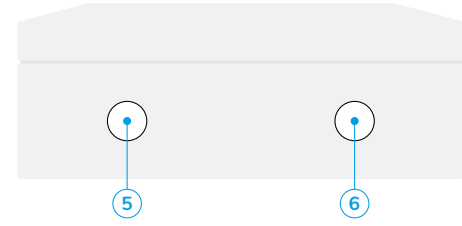


Figure 2: Interfaces Top

## Technical Specifications

<b>Mechanical specifications</b>	<b>Outdoor</b>
Weight	220 g
Dimensions (internal antennas)	150 × 150 × 55 mm
Enclosure	Plastic, ASA, UV resistant
Ingress protection	IP65

<b>Operating conditions</b>	<b>Outdoor</b>
Temperature range	-20 – 60 °C
Humidity	0 – 95 % RH, non-condensing

<b>Device power supply</b>	<b>Outdoor</b>
Standard	PoE 802.3af (12 W)
Optional	9...36VDC (12 W)
	Super-Cap power fail

<b>mioty® Radio / Wireless</b>	<b>868 MHz</b>
Rx sensitivity <sup>1</sup>	-136 dBm
RF transmission power <sup>1</sup>	up to 24 dBm
RX frame capabilities <sup>1</sup>	Up to 3.5M telegrams per day (PER <= 1%)

<sup>1</sup> See gateway card datasheet for detailed specifications

<b>Antenna options</b>	
IoT/mioty®	External antenna
LTE	Dual, multi-band-MIMO (internal + external)

<b>Certifications</b>	
CE	

# Mechanical Dimensions

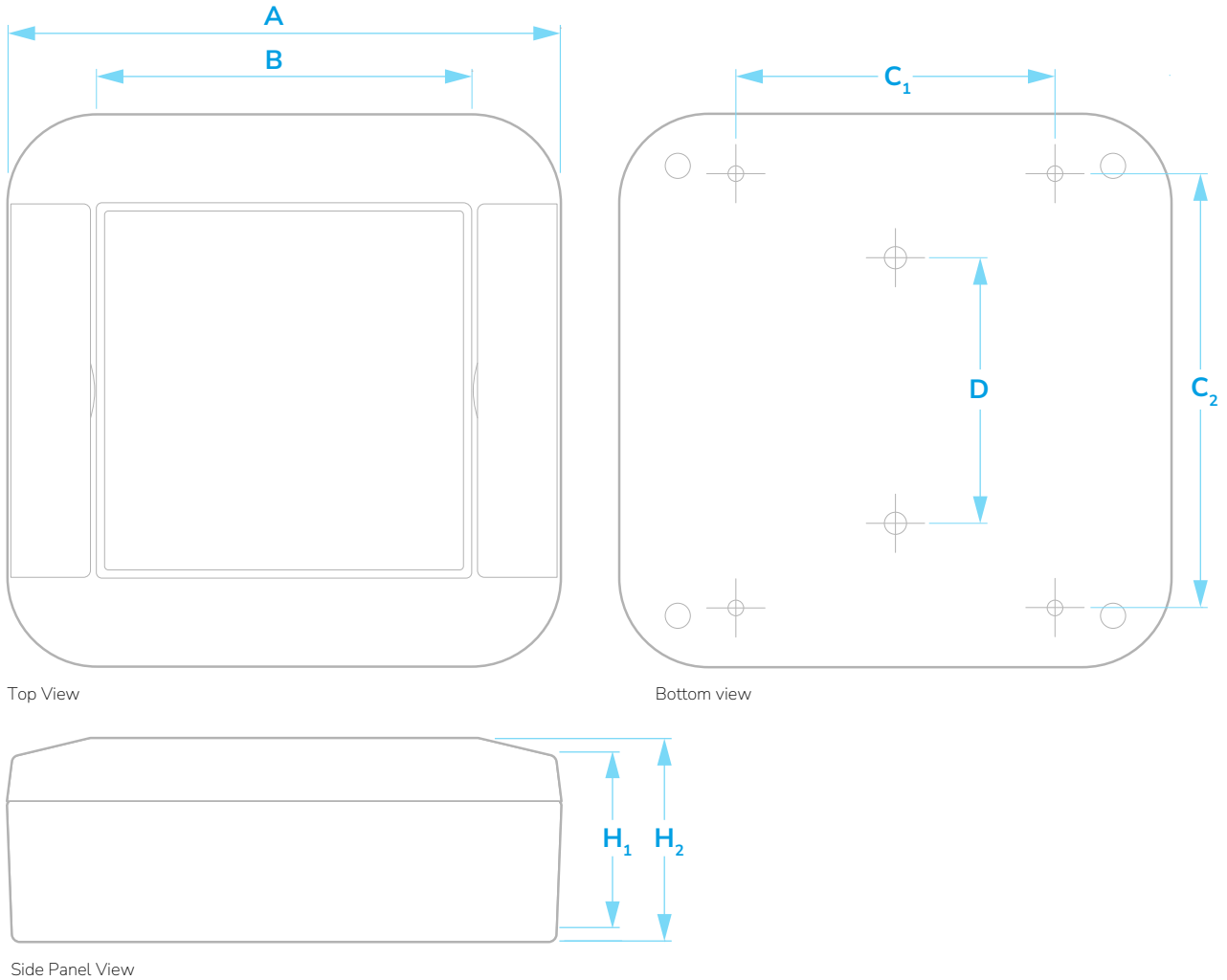


Figure 3: Mechanical Dimensions in mm

<b>A</b>	<b>B</b>	<b>C<sub>1</sub></b>	<b>C<sub>2</sub></b>	<b>D</b>	<b>H<sub>1</sub></b>	<b>H<sub>2</sub></b>
150	102	86.5	117.5	72	17	38

## Additional Documentation

### Additional Ressources

Product information page	<a href="https://miromico.ch/miro-edge-outdoor">miromico.ch/miro-edge-outdoor</a>
Technical documentation	<a href="https://docs.miromico.ch/gateways-cards/miro-edge-classic">docs.miromico.ch/gateways-cards/miro-edge-classic</a>

## Device Options

Product ID	ISM BAND		Options		
	EU868	US915	LTE	Ext. Antenna	SIM <sup>1</sup>
EDGE-OD-MY-868	✓			✓	
EDGE-OD-MY-868-LTE	✓		✓	✓	CH/EU

<sup>1</sup> Gateway is equipped with Swisscom SIM card and 200 MB/month data volume for 3 months. Other SIM cards on request.

## Keep in touch

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# Functional Description

**miro Edge Outdoor** is a product family of extremely flexible and cost-effective edge gateways for both indoor and outdoor applications, supporting standards like LoRa®, LoRaWAN®, WiFi, Bluetooth, GPS, on many frequency plans and regions (868/915 MHz/2.4 GHz). The small form-factor, integrated interfaces like USB2.0, Ethernet, WiFi, mPCIe (USB 2.0) and its underlying LinuxOS allows to integrate these gateways easily into any infrastructure. The Gateway can be configured to communicate with any LoRaWAN® compatible cloud service.

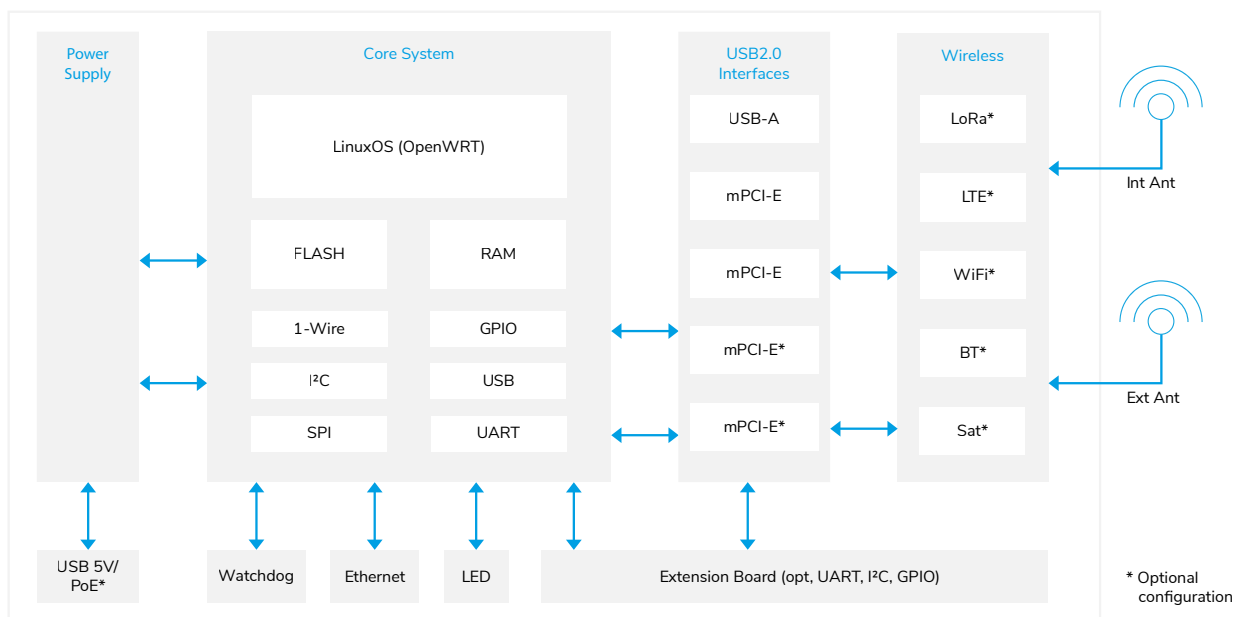


Figure 4: Block diagram miro Edge Outdoor