Product Datasheet

edgeRX Gateway

Version 1.0

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1. Overview

The TDK edgeRX Gateway integrates IoT and cloud computing technologies to deliver centralized sensor management with comprehensive capabilities including:

Real-time data acquisition, Predictive analytics, Cloud-based storage, Visualization dashboards and Local data redundancy (microSD card).

For industrial deployment, the gateway features DIN rail (EN 60715 compliant) and wall-mount configurations, enabling rapid installation in electrical cabinets or control rooms.

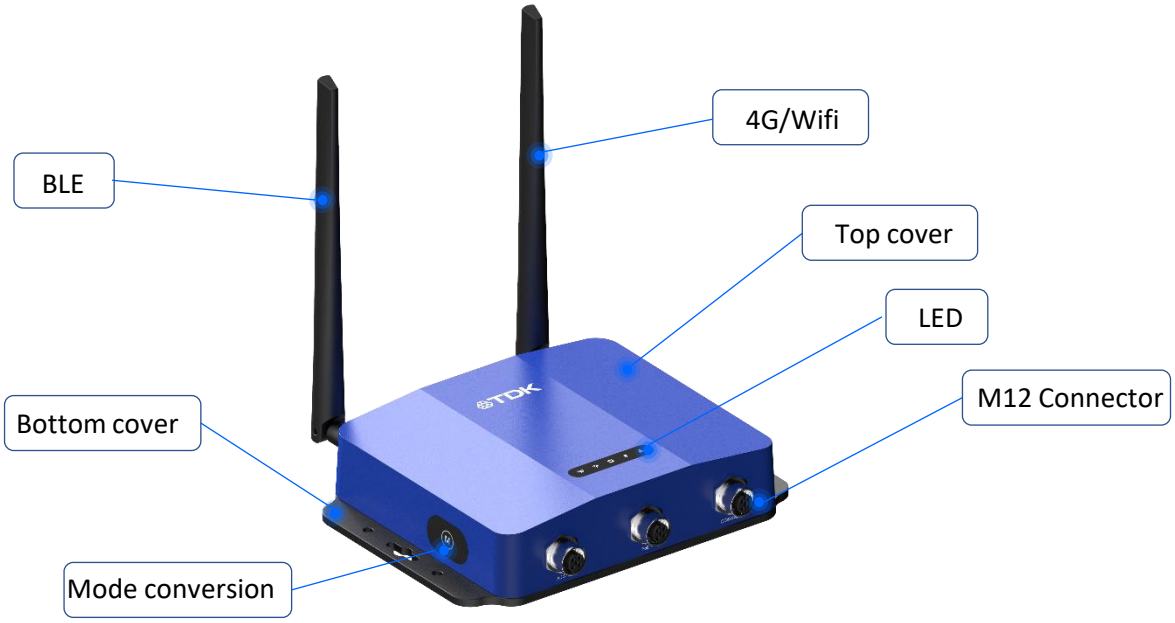

Figure 1 edgeRX Gateway

2. Features

- Wide DC supply voltage range from 12V to 36V.
- Wifi 802.11.b/g/n
- BLE 5.0 communication supported
- Support long-distance Bluetooth communication (up to 100 meters in LOS)
- Temperature measurement range -40~85℃
- MicroSD card supported
- IP rating: IP67

3. Applications

- Lithium Battery Manufacturing, Semiconductor Manufacturing, Precision Machining, Ports, Warehouse, Iron and Steel, Electric Power, Natural Gas, Oil, Smart Building

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4. Technical Specification

Item	Specification
CPU	• MCIMX6Y2DVM05AA, ARM Cortex-A7,528MHz
Memory	• 512 MB DDR3 RAM, 4GB eMMC ROM
Ethernet	• 10/100M Ethernet
Wireless communication	• 4G-LTE (Configurable) • WiFi (Configurable) • BLE 5.0
RS485	• Modbus (optional)
LED	• 5 * Green LED including: System, BLE, RS485, Ethernet, 4G and WiFi
Button	• Factory reset (long press > 5sec) • BLE Pairing (short press)
USB	• 1 * USB 2.0
Power supply	• Typical 12V DC input, range from 9V~36V • PoE (IEEE 802.3af, 13W maximum) Configurable
Certification	• FCC/ UL for North America • CE for Europe • SRRC for China • Telec for Japan
IP rating	• IP67
Mounting	• Wall mounting • DIN rail mounting
Operating temperature	• -40~85℃
Dimension	• 160mm x 140mm x 40mm

SRRC

222-259015

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5. Mechanical Specification

All measurements are listed in millimeters unless noted otherwise.

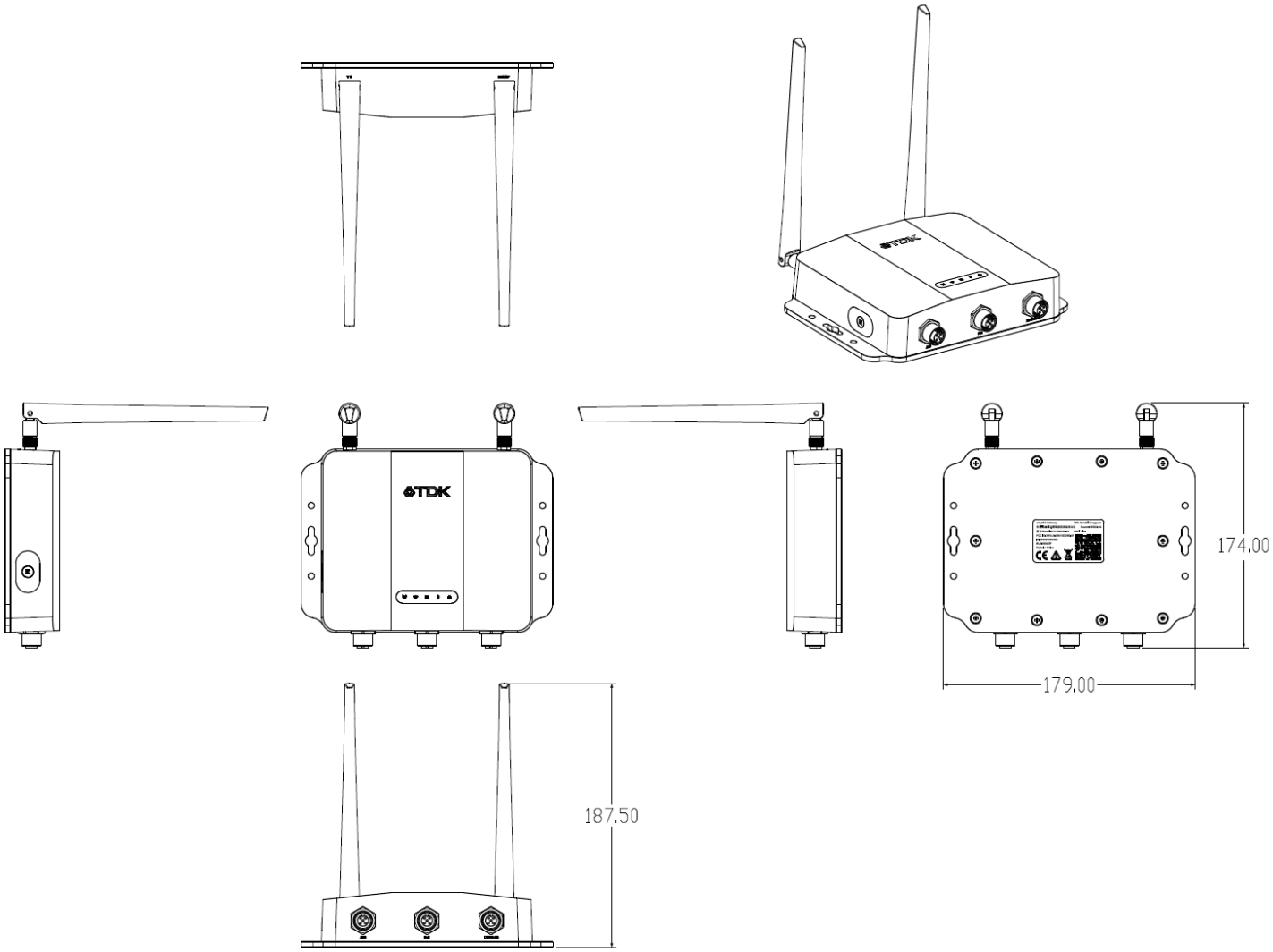

Figure 2 Dimension of edgeRX Gateway

6. Accessory Requirements

Only accessories approved by the equipment manufacturer and compatible with this model may be used. Using other types of accessories may violate the warranty terms of this equipment and the relevant regulations of the country where the equipment is located, and could result in safety incidents. To obtain approved accessories, please contact an authorized service center.

7. Environmental Protection

Do not dispose of this equipment and its accessories as ordinary household waste. Please comply with local regulations regarding the disposal of this equipment and its accessories, and support recycling efforts.

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8. FCC Statement

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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