robustel

Deploy Intelligence Where It Matters Most

IoT Edge Computing Gateways for real-time processing, AI enablement, and industrial resilience.

Robustel EG Series - IoT Edge Computing Gateways

EG5100 Gateway

Versatile Industrial Edge Gateway

RobustOS Pro (Debian 11) on NXP i.MX6ULL Cortex-A7 with Docker support.

4G/LTE (dual SIM), Wi-Fi 5, BLE 5.2, 2x Ethernet, RS-232/485, CAN, DI/DO.

EG5101 Gateway

Compact, Cost-Efficient Edge Platform

RobustOS Pro (Debian 11) on NXP i.MX6ULL Cortex-A7.

4G/LTE Cat-1 (dual SIM), Ethernet, RS-232/485, DI/DO.

EG5120 Gateway

Smart Edge Analytics Gateway

RobustOS Pro (Debian 11) on NXP i.MX8M Plus with integrated NPU with Docker support.

4G/LTE, 5G (dual SIM), Wi-Fi 5, BLE 5.2, 2x Ethernet, RS-232/485, DI/DO/AI, GNSS.

EG5200 Gateway

AI-Enabled Industrial Gateway

RobustOS Pro (Debian 11) on NXP i.MX8M Plus with 2.3 TOPS NPU with Docker support.

4G/LTE, 5G (dual SIM), Wi-Fi 6, BLE 5.3, 5x Ethernet, USB 3.0, HDMI, microSD.

An Intelligent Processing Layer for IIoT Networks

What is an Edge Gateway?

An edge gateway is a smart device that sits between industrial equipment and the cloud. It enables local processing, protocol conversion, and secure data transmission—ensuring faster decision-making, reduced bandwidth usage, and greater system resilience.

Built on industrial-grade hardware and flexible Linux platforms, edge gateways allow businesses to deploy applications, run analytics, and manage devices at the network edge—without depending solely on cloud infrastructure and internet connectivity.

Edge Intelligence for Real-Time AI Workflows

ENABLING AI AT THE NETWORK EDGE

Robustel's EG Series gateways provide the compute, connectivity, and OS-level flexibility needed to deploy AI models closer to where data is generated. By processing data locally, businesses can reduce latency, lower cloud costs, and make faster, smarter decisions.

Edge AI in action (typical use cases):

Requirements are critical for:
- Video analytics and object detection.
- Predictive maintenance using sensor data.
- Machine vision and defect classification.
- Real-time anomaly detection.
- Local data pre-processing for ML pipelines.

Who should be using Edge Gateways?

- Industrial OEMs
- System integrators
- Factory and plant operators
- Utilities and energy providers
- Smart city and infrastructure managers

Powered by RobustOS Pro

A Secure, Flexible OS for Containerized Industrial Edge Computing

RobustOS Pro is a hardened Linux-based operating system designed specifically for edge computing gateways.
Built on Debian 11 ("Bullseye") and supporting Docker containerization, it enables real-time processing, app deployment, and secure data handling at the network edge.

Core capabilities of RobustOS Pro:

- Full Debian package ecosystem (50K+ packages).
- Support for Docker and containerized AI workloads.
- Industrial-grade firewall, VPN, and secure networking stack.
- Robust SDK for custom apps and protocols.
- Remote device monitoring and management via RCMS.