

MODBUS CANBUS GATEWAY

“ONE GATEWAY, TOTAL PROTOCOL COMPATIBILITY”



MODBUS CANBUS GATEWAY

Size in mm : 70mm X 185mm

- Integrates seamlessly into diverse IoT environments by supporting a broad spectrum of Sensor signal interfaces and legacy communication standards.
- Ideal for fast-track digital transformation in industries and smart infrastructure.
- Built to scale effortlessly with evolving IoT needs, this gateway provides a reliable backbone for future-ready, intelligent automation systems.

MBCB Gateway Specifications

MBCB Target Applications & Use Cases

MODBUS CANBUS GATEWAY	
MCU	ARM Cortex MCU @ 96MHz
Flash Memory	32MB Flash Memory
LAN Interfaces	Wi-Fi 2.4G b/g/n, 10/100Mbps Ethernet interface
Sensor Interfaces-1	1x RS485 MODBUS, 1x RS232, 1x CANBus
Sensor Interfaces-2	2x 4/20mA Analog Current interface, 2x 0-24V Analog Voltage interface, 2x DI Inputs at 24V input signal levels, 2x DO Outputs at 24V voltage level, 4x Relay Coils Control signals
Display	1x Power display RG LED, 1x NW status display RG LED, 1x Battery status display RG LED, 1x 200x200 pixel E-ink 1.5" display (Optional)
Enclosure	IP65 based enclosure box
Size	70mm x 185 mm
Operating temperature	-40 to 85°C
Module supply voltage	9V to 24V DC Input
Debug Console	USB Type-C based debug console
Battery	1500 mAh Li-ion Rechargeable Battery (Up to 6 hours Battery life)

Application Area	Use Cases
Industrial Automation Systems	Real-time data acquisition and control for PLCs, HMIs, and SCADA systems using MODBUS and CANBUS
Smart Building Management	Centralized control of HVAC, lighting, fire alarms, and access systems with Wi-Fi connectivity.
Remote Monitoring & Telemetry	Data logging and control for remote sites such as water treatment, agriculture, or energy fields.
Smart Energy & Utilities	Connect solar inverters, energy meters, and battery systems to cloud dashboards for monitoring.
Transportation & Fleet Systems	CANBUS diagnostics, vehicle telemetry, and predictive maintenance in buses, trucks, and fleets.
Warehouse & Asset Management	Inventory tracking, environmental data logging, and automation using IoT sensors
Marine & Shipyard Applications	Monitor engine, fuel, ballast, and environmental systems onboard ships via MODBUS/CANBUS.
Automotive & Transportation	In-vehicle diagnostics, R&D simulations, and cloud-based fleet management using CANBUS and Wi-Fi



MODBUS CANBUS GATEWAY WITH IP65 BASED ENCLOSURE

KEY BENEFITS

- This IoT Gateway offers cost-effective way to manage and control maximum number of IoT devices.
- Supports different communication protocols like TCP, UDP, HTTP and MQTT to interact and push the IOT devices data to the Dashboard server.
- Supports 1500mAH rechargeable Battery (Li-ion) for devices power backup up to 6 hours.
- The RTC chip and its dedicated battery keeps up the Gateway device's date and time even when power is disconnected.