



- ✓ MODULAR EDGE PLATFORM
- ✓ SECURE DATA FLOW from FIELD to CLOUD
- ✓ DOCKER & CONTAINER SUPPORT
- ✓ ENERGY MONITORING and DATA ANALYTICS
- ✓ PROTOCOL CONVERSION and SYSTEM INTEGRATION
- ✓ REMOTE ACCESS and DEVICE MANAGEMENT
- ✓ MULTI-SITE and LOCATION MANAGEMENT
- ✓ ALARM, THRESHOLD and EVENT MANAGEMENT
- ✓ IEC 62443-COMPLIANT CYBERSECURITY
- ✓ SCALABLE I/O and COMMUNICATION INFRASTRUCTURE

 MB-213

Secure Remote Access Device

 WR-401 / WR-402

Wireless I/O and Field Communication Device

 PM-500

Protocol Converter and Edge Gateway

START BUILDING YOUR CONNECTED SYSTEM TODAY.

**CONNECT.
CONTROL.
CONVERT.
SCALE.**

 MB-213

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Wireless I/O and Field
Communication Device

 PM-500

Protocol Converter and Edge Gateway

NOT JUST A PRODUCT. AN INDUSTRIAL COMMUNICATION ECOSYSTEM.

Build a scalable, **secure**, and **fully integrated** industrial automation system.



CORE SYSTEM

- Centralized control & communication
- Single-point I/O management
- System backbone



FLEXIBILITY

- Wireless communication
- Rapid deployment
- Field-independent architecture

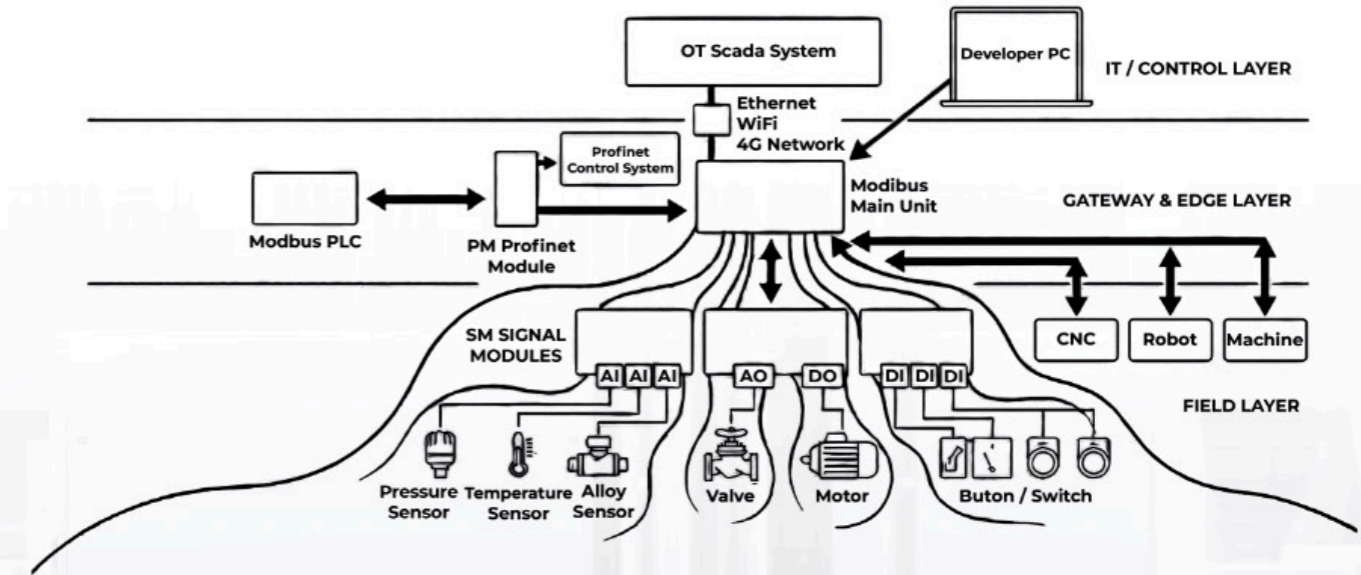


COMPATIBILITY

- COMPATIBILITY
- Seamless integration with existing systems
- Easy integration

MODIBUS solves **connectivity, control, I/O**, and protocol challenges in industrial systems **not with standalone products**, but through a unified, modular architecture that works seamlessly.

PUT DATA AT THE CORE. SIMPLIFY THE SYSTEM. TAKE CONTROL.



An intelligent communication network that consolidates all field data into a **single central hub**.



Gateway & Edge Layer

- Acquire data
- Convert protocols
- Enable Ethernet connectivity



IT / Control Layer

- SCADA integration
- Monitoring & analytics
- Secure data transmission



Field Layer

- Sensors & devices
- Direct connectivity
- Real-time data acquisition

THE CORE OF THE SYSTEM. ALL CONTROL STARTS HERE.



Secure Remote Access

- Remotely accessible, secure for your IT/OT network.



Modular Expansion

- Expand the system with additional modules.



Secure Path to IT/OT

- Secure and unified communication between IT and OT systems.



Remote Control Across the Entire Field

- Centralized access and control of all field devices from a single point.

MB-213, combines modular expansion and protocol conversion capabilities into a **single device**.

TECHNICAL SPECIFICATIONS	DESCRIPTIONS
Operating Voltage	24VDC (±20–30%) – (Max. 6W)
WAN Connectivity	Ethernet veya Wi-Fi (802.11 b/g/n)
Wi-Fi Security	Supports WPA2, WPA, and WEP
LAN Port	1 WAN + 1 LAN Port
USB Interface	Available
SD Card	Available (MicroSD)
Serial / DI / DO / 4G Sim	Enabled through expansion with additional modules.
Cloud Architecture	Secure MDS
Operating Temperature	-20 °C ... +70 °C
Security & Maintenance	Compliant with CE and GOST 31581-2012 standards for safety.
Mounting	Suitable for panel mounting via DIN rail or screw fixing.
Dimensions	110 mm x 105 mm x 35 mm (HxDxW)
Weight	125 g

CONNECT AS MUCH AS YOU NEED. DON'T CHANGE YOUR SYSTEM.

Get all the **connectivity you need** on a single platform. Utilize LTE, serial, or Ethernet communication without changing your system.



CM-214 – 4G LTE GSM Module

- Supports LTE communication
- LTE communication for reliable connectivity in remote locations.
- Equipped with SMA connectors for main and diversity antennas.
- Mini-SIM slot for SIM cards.
- Dimensions: 110.06x34.30x101.40 mm
- Weight: 75 g
- Operating temperature: -20°C - +70°C



CM-215 – Serial Communication Module

- Supports RS232 and RS485 communication protocols.
- DB-9 male connectors for RS232 and RS485.
- Dimensions: 110.06x34.30x101.40 mm
- Weight: 120 g
- Operating temperature: -20°C - +70°C



CM-216 – Ethernet Hub Module

- Supports Fast Ethernet communication (RJ45 connectors).
- Enables switching between multiple Ethernet channels.
- Each port can be individually configured with a separate IP address.
- Dimensions: 110.06x34.30x101.40 mm
- Weight: 120 g
- Operating temperature: -20°C - +70°C

WIRELESS FREEDOM IN THE FIELD.

Add what you need—your entire system runs securely **within the same architecture.**



Wireless & Isolated Data Bridge: WR-401

- Enables wireless communication between PLCs and Ethernet devices. Provides end-to-end secure data transmission.
- No external network or internet connection required.



Advanced I/O Solution: WR-402

- Enhanced version of the WR-401 infrastructure.
- Expandable architecture with CM and SM modules.
- Transmits local I/O signals wirelessly.

TECHNICAL SPECIFICATIONS	DESCRIPTIONS
Operating Voltage	24VDC (±20–30%) – (Max. 6W)
P2P Connectivity	Wi-Fi (802.11 b/g/n)
Wi-Fi Security	Supports WPA2, WPA, and WEP
LAN Port	2 LAN Port
Serial / DI / DO	Available only on the WR-402 model, expandable with CM215, CM216, and SM modules.
Operating Temperature	-20 °C ... +70 °C
Security & Maintenance	Compliant with GOST 31581-2012 standards for safety.
Mounting	Suitable for panel mounting via DIN rail or screw fixing.
Dimensions	110 mm x 105 mm x 35 mm (HxDxW)
Weight	125 g



WR-402



WR-401

CAPTURE EVERY SIGNAL. SCALE WITHOUT LIMITS.

Industrial I/O Expansion

- Reliably collects and manages field signals.
- Seamlessly integrates with MB-213 and WR-402.
- Centralized control and communication.

Field-Ready

- Easy to install.
- Supports stable operation.
- Fast commissioning.



All Signals on a Single Platform

- Digital and analog signals unified in one architecture.
- Easily adapts to different applications.

Standards & Compatibility

- Supports 4–20 mA and 0–10 V.
- Direct integration with sensors and actuators.

SM modules are designed for monitoring and controlling digital and analog signals.

Analog I/O: 4–20 mA · 0–10 V · Configurable AI/AO (13-bit)

Combined I/O: Measurement and control in a single module (AI/AO).

Digital I/O: 8DI · 16DI · 8DO · 16DO · Combined DI/DO

MODEL CODES

SM-601 - 8DI	SM-632 - AI (0-10 V)
SM-602 - 16DI	SM-633 - Configurable AI
SM-611 - 8DO (PNP)	SM-641 - AO (4-20 mA)
SM-612 - 16DO	SM-642 - AO (0-10 V)
SM-621 - 8DI / 8DO	SM-643 - Configurable AO
SM-631 - AI (4-20 mA)	SM-651 - AI / AO Combined

TRANSMIT DATA RELIABLY AND WITHOUT LOSS.

Intelligent Bridge Between Protocols

- Secure data communication between PROFINET ↔ Modbus TCP.
- Transparent, bidirectional data exchange between systems.
- Real-time, deterministic, and stable communication.
- Easy integration without modifying the existing infrastructure.
- Fast commissioning without additional software.



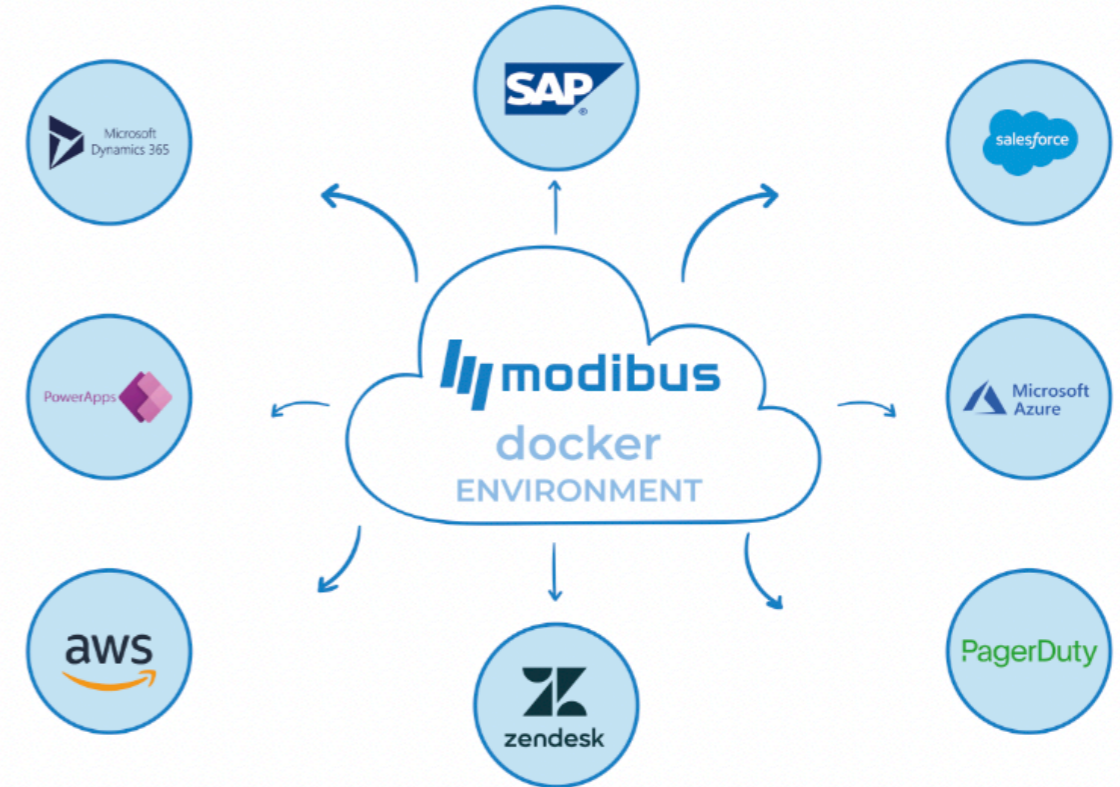
TECHNICAL SPECIFICATIONS	DESCRIPTIONS
Operating Voltage	24VDC (±20–30%) – (Max. 6W)
Supported Protocols	PROFINET IO (Controller/Device), Modbus TCP (Client/Server).
LAN Port	2 LAN Port
Data Communication Direction	Bidirectional (PROFINET ↔ Modbus TCP).
IP Configuration	Static IP / DHCP
Data Mapping	Supports Register / Coil / Input / Holding Register mapping.
Max. Data Size	1024 byte I/O data
Cycle Time	≥ 10 ms (depending on network and configuration).
Max. Number of Modbus Devices	8–32 slaves (depending on configuration).
Real-Time Performance	Deterministic data transfer.
Operating Temperature	-20 °C ... +70 °C
Mounting	Suitable for panel mounting via DIN rail or screw fixing.
Dimensions	110 mm x 105 mm x 35 mm (HxDxW)
Weight	125 g



PM-500 performs deterministic data mapping between PROFINET and Modbus TCP.

Ensures interoperability between systems without requiring additional PLC-side software.

DEPLOY YOUR APPLICATIONS, FORGET THE INFRASTRUCTURE.



Docker-Based Edge Infrastructure

- Runs applications securely and efficiently at the edge.
- Provides isolated and portable deployment with container architecture.
- Eliminates operating system dependency.
- Supports IIoT, data acquisition, and edge analytics applications.
- Ensures system stability with standalone operation.

What Can You Do with Docker?

- Deploy your applications as containers.
- Run tools like Node-RED, MQTT, InfluxDB, and Grafana.
- Manage cloud agent applications in an isolated environment.
- Execute data processing and analytics at the edge level.

COLLECT. PROCESS. VISUALIZE. SEAMLESS DATA FLOW FROM FIELD TO CLOUD.



Modular Data Acquisition Infrastructure

- Flexible data acquisition with SM and CM modules.
- Customizable and expandable system based on requirements.
- Secure and uninterrupted collection of field data.

How Does the Data Flow Work?

- Signals are collected via SM modules.
- PLC and device data are read through CM modules.
- Data is normalized and stored on the device.
- Real-time monitoring via web dashboard.

FROM DATA TO VALUE.

Energy monitoring and data-driven optimization powered by the Modibus Platform.



PROJECT

- Smart Manufacturing
- Energy Optimization
- Remote Monitoring
- Industrial IoT Integration

OBJECTIVE

- Make losses visible.
- Control consumption.
- Optimize costs.

SYSTEM

- SM → Data acquisition
- CM → Data integration
- Edge → Data logging
- Cloud → Visualization

ADVANTAGES

- No additional SCADA.
- No licensing.
- No server required.

OUTCOMES

- Leaks detected.
- Abnormal consumption identified.
- Resource utilization optimized.

ROI

- CAPEX ↓
- OPEX ↓
- Simplified system.
- Enabled proactive maintenance.
- Easily scalable.



CONCLUSION: Energy is no longer a cost—it's manageable data.