SaiGon® Technolog

M500M-Q-W-N

Data logger with alarm management and remote control
& Cloud support for Wifi network

WiFi

MQTT Protocol

Modbus RTU

ISO 9001:2015 GUARANTEE CERTIFIED

- Features

- High Performance Cortex M3 32-bit ARM
- Data Logger on SD card
- Real-time data monitoring
- Internal webpage for online monitoring
- Protocols: Modbus RTU & MQTT
- 6 Analog inputs: 4-20 mA, 0-10 V
- 4 Digital inputs
- 4 Digital outputs
- Data transmission for Wifi network
- Mounting: Din-rail

- Introduction

M500M-Q-W-N is the IoT Gateway product line built and developed by Saigon Technolog. It is capable of connecting multiple field devices (sensors, pumps, fans...) by input and output such as Analog (4-20 mA, 0-10 V), Digital, RS-485 and transfer data to cloud storage & machine Web server over Wifi network. Allows users to manage alarms and remote control in real time using MQTT protocol.
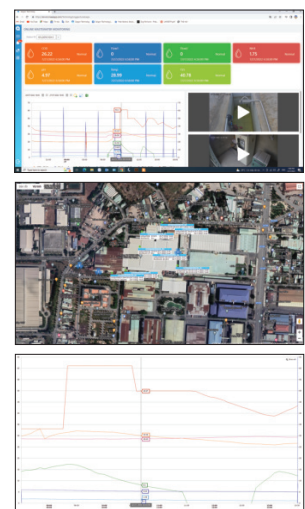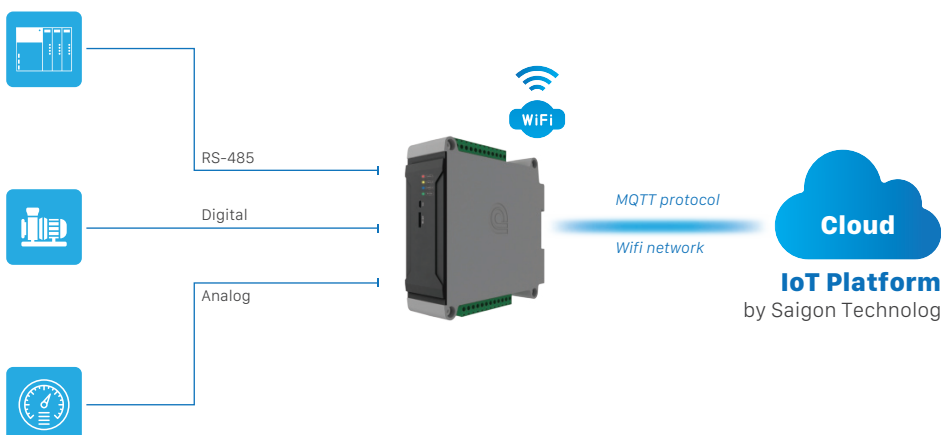
The product features a compact, industry-standard design that's rugged enough to withstand the harsh conditions of industrial environments. The installation has been standardized, neat and fast. The operation configuration of the system is simple, flexible, can be done locally or remotely.

M500M-Q-W-N supports 256MB Flash memory, micro SD card slot expands up to 8GB, multi-tasking real-time operating system. The combined use of these data managers with the IoT Platform solution produced by SGTEC will complete the data management on Web / App Mobile anytime and anywhere by phone, Ipad, Laptop...

- Fimware

Data collection	Data logging
• Collect data from Analog and Digital inputs • Collect data from RS485 ports • Acts as a Master device and collects data from one or more other Modbus RTU devices	• Flash memory up to 256Mb • Features automation, control and remote monitoring • Function to get data from memory cards via USB port
Data communication	Configure Settings
• Data transmission over Wifi network • Protocols: Modbus RTU & MQTT	• By software via USB Serial Port (MEES Config by SG Technolog)

- Application Example

RS-485

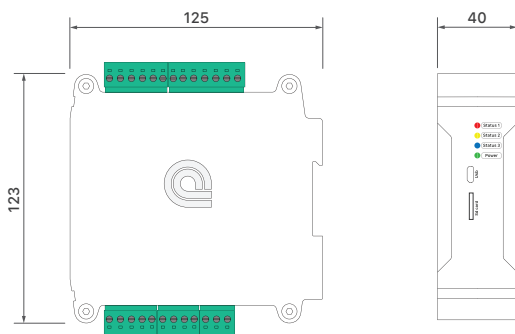Digital

Analog

WiFi

MQTT protocol

Wifi network

Cloud

IoT Platform
by Saigon Technolog

- Specifications

Control system	
MCU	Cortex M3 32-bit ARM
Power Supply	12...24 VDC
Protection Degree	IP20
USB port	Support 1 x Micro B
Memory	Chip Flash 256MB
Sd card	Support up to 8Gb
Communication	
Protocols	Modbus RTU & MQTT
Interfaces	• Support 1 x RS-485 master: connect with max. 3 slave • Data transmission over Wifi network
Analog input	
Channels	6
Type	Voltage: 0...10 V Current: 0...20 mA, 4...20 mA
Resolution	24-bit
Digital/ Pulse input	
Channels	4
Digital output	
Channels	4
General	
Dimensions (LxWxH)	125mm x 40mm x 123mm
Operating Temp.	-5...45°C
Mounting	Din-rail

- Dimensions

• Drawings and dimensions (all dimensions in milimeters)

- System LED

LED	Color	Function Description
Power	Green	Light on: have power supply
Status 3	Blue	Blink: Data transmission
Status 2	Yellow	Blink: normal operation
Status 1	Red	Light on: start update software

- Wiring

• M500M-Q-W-N with simplified wiring diagram, Users can conveniently choose from 12VDC to 24VDC power supply. Follow the diagram below for wiring.

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