

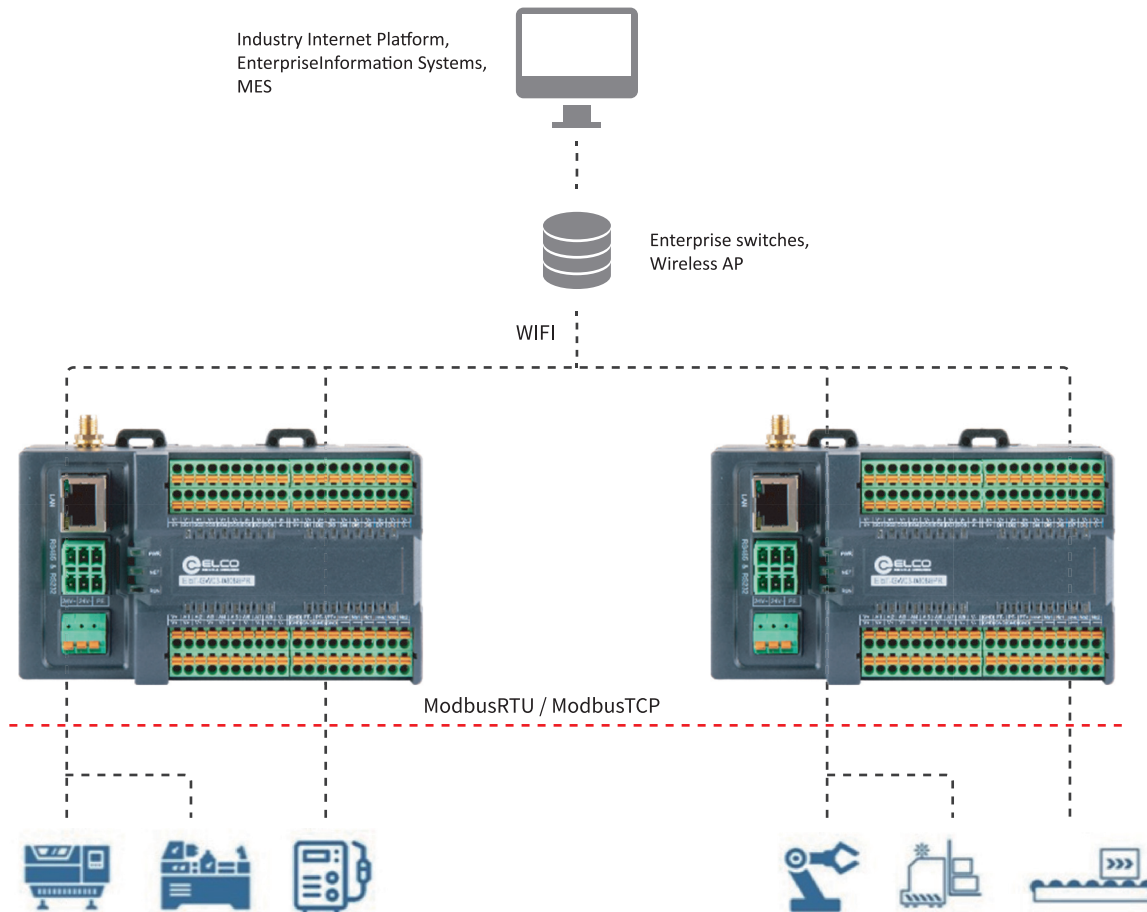
EIOT-GW03 SERIES

PRODUCT DESCRIPTION

Spider67 Mobile Series IO gateway terminal, using embedded technology development, based on 4G, WiFi communications design, built-in high-precision digital-analog identification conversion module, receiving sensors, bus signals, intelligent routing linkage, quick access to the cloud, all-round to meet customer demand for intelligent data collection.

This product is a kind of terminal which can satisfy all kinds of digital and analog data. It can support the deep application extension based on IoT Hub platform, and can be used in the field of collection and monitoring of production line equipment, support extended third-party system data interface services, including various industrial field systems (MES, SCADA, etc.) , to achieve independent of PLC and related control system data acquisition and upload, and extend the intelligent logic control.

PRODUCT DESCRIPTION



The EIoT20 Mobile series gateway products are designed for remote device control, data acquisition, and network communication. Featuring an embedded design, these secure and stable products can operate continuously at customer sites, finding broad application in industrial internet and IoT control scenarios.

This device connects edge equipment to establish device networking while collecting and uploading real-time data from various nodes. Utilizing Ethernet network protocols, it seamlessly integrates with the Elco IoT application platform for upper-layer application expansion or interfaces with other existing or public platforms. This enables online management of devices and field conditions, meeting diverse customer requirements.

## EIOT-GW03 SERIES

### PRODUCT FEATURES

#### HARDWARE CONFIGURATION

- Embedded design ensures product safety and stability, enabling 24/7 uninterrupted operation
- Supports Wi-Fi and Ethernet network communication
- Features 8 AI channels, 8 DI channels, 8 DO channels, 1 PT100 channel, and 2 relay outputs
- Supports Modbus TCP mode for remote device data retrieval
- Supports 485 mode configuration and Modbus RTU for sensor data retrieval
- Threshold setting function enables configurable upper and lower alarm limits
- Interlock capability triggers preset digital output devices based on alarm thresholds
- Incorporates watchdog monitoring with built-in abnormal restart mechanism to prevent device downtime
- Supports remote FOTA (Firmware Over-The-Air) upgrades
- Supports wide voltage power supply: DC 10 ... 6 V

#### GATEWAY FEATURES

- Supports TLS wireless data transmission encryption technology
- Supports manual and NTP time synchronization methods
- Supports integration with mainstream PLCs, including Siemens, Mitsubishi, Omron, Rockwell, etc
- Equipped with a network firewall, supporting NAT and port mapping
- Embedded hardware/software watchdog ensures stable device operation
- WLAN port supports protocols: IEEE 802.11 ac/a/b/g/n; Security features: Open System, Shared Key, WPA/WPA2 authentication, WEP/TKIP/AES encryption; Operating mode: STA mode
- Supports network intelligent diagnostics to verify current network status

#### SUPPORTING SOFTWARE

- Supports custom Modbus RTU data acquisition configuration, enabling definition of Modbus device addresses, command messages, read/write register addresses and lengths, with data protocol parsing support
- Supports custom conversion configuration for Modbus RTU and northbound Modbus TCP
- Supports custom parsing configuration for analog input data
- Supports scheduled data reporting, change-triggered reporting, alarm-triggered reporting, and interlocked information reporting/configuration
- Supports interlocked data configuration for D1, AI to DO, and relay output modes; configurable via embedded web UI, PC tools, or cloud platform
- Supports input/output direction configuration and analog current/voltage type selection
- Ethernet interface network protocols support static IP and DHCP address settings, configurable network parameters including IP address, subnet mask, gateway, DNS, etc.; IP, TCP, UDP, ARP, ICMP, IPV4, DHCP, DNS, SNMP, Telnet, IPV6
- Supports web interface login authentication with configurable account and password settings

## EIOT-GW03 SERIES

### POWER PARAMETER

<b>POWER SUPPLY</b>	DC 10 ... 36 V
<b>AVERAGE WORKING CURRENT</b>	200 mA

### INTERFACE PARAMETER

<b>POWER CONNECTOR</b>	Fed from the terminal
<b>DIGITAL IO</b>	Supports 8 digital input (DI) channels and 8 digital output (DO) channels, with a digital I/O drive capability of 500 mA.
<b>ANALOG INPUT</b>	Supports 8 analog inputs, voltage: 0 ... 10 V, current: 0 ... 20 mA
<b>RELAY SWITCH</b>	Features 2-channel relay digital outputs. Relay load capacity NO: 3 A 250 V AC / 3 A 30 V DC NC: 3 A 250 V AC / 3 A 30 V DC
<b>TEMPERATURE MEASUREMENT</b>	Features one channel of PT100 temperature measurement with a range of -70 ... +160 °C
<b>ETHERNET</b>	1-port RJ45
<b>WIFI</b>	SMA Antenna
<b>INDICATOR LIGHTS</b>	LED indicators for device status and I/O status

### WIRELESS PARAMETER

<b>COMMUNICATION METHODS</b>	WIFI, Ethernet
<b>SUPPORTED PROTOCOLS</b>	WPS / WEP / WPA / WPA2 Personal / WPA2 Enterprise / WPA3
<b>SUPPORTED RATE</b>	Supports 20 MHz bandwidth, Maximum rate 72.2 Mbps
<b>OPERATING MODES</b>	Host mode, slave mode
<b>CONFIGURATION COMMANDS</b>	ModbusRTU
<b>NETWORK PROTOCOLS</b>	ModbusRTU, ModbusTCP
<b>APPLICATION SOFTWARE</b>	Support for configuration software

### MECHANICAL PARAMETER

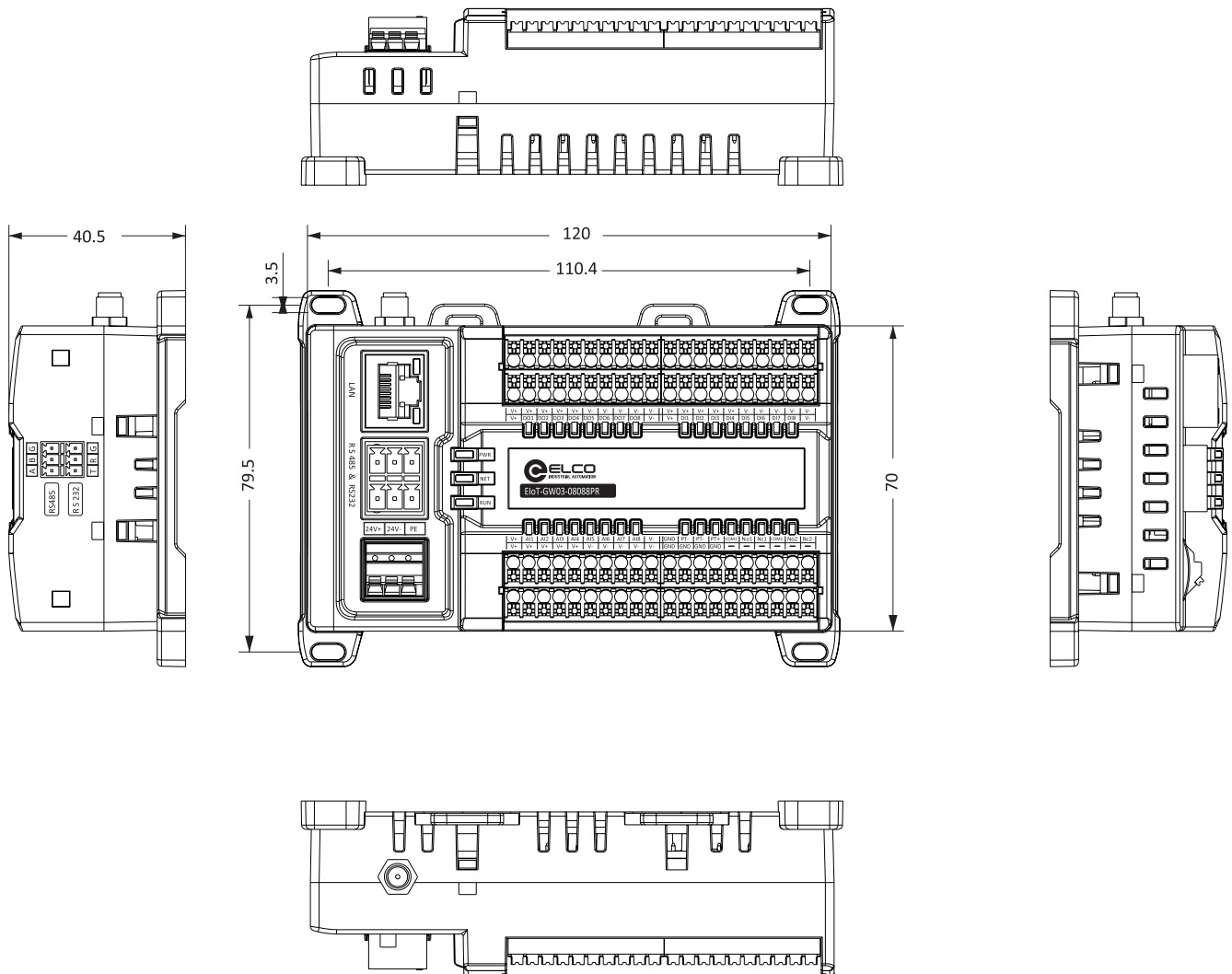
<b>PRODUCT SIZE (L*W*H)</b>	120 x 70 x 40.5 mm
<b>INSTALLATION</b>	Rail mounting

EIOT-GW03 SERIES

ENVIRONMENTAL CONDITIONS

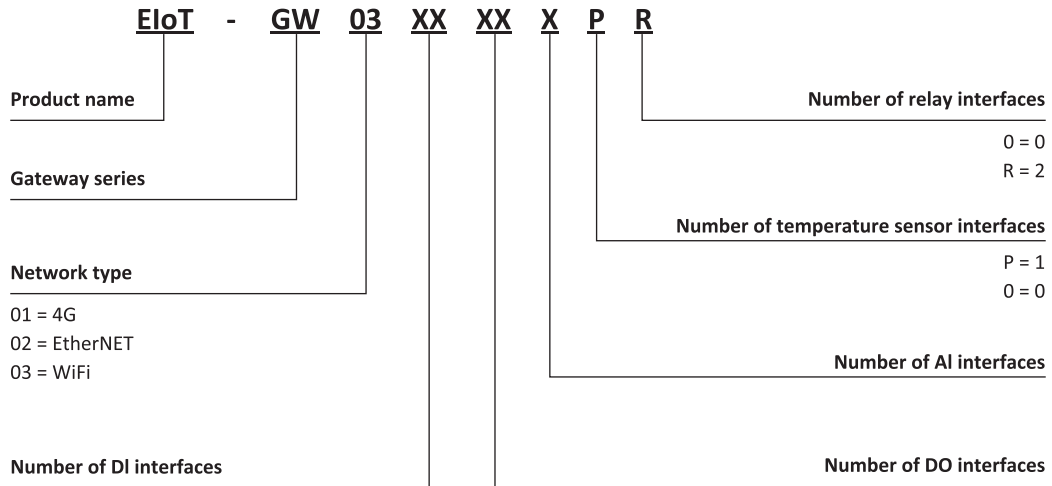
<b>WORKING TEMPERATURE</b>	-30 ... +70 °C
<b>STORAGE TEMPERATURE</b>	-35 ... +85 °C
<b>PROTECTION CLASS</b>	IP20
<b>EMC CLASS</b>	Class 3

DIMENSIONS



EIOT-GW03 SERIES

ORDER CODE



## EIOT-GW03 SERIES

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### SALES AND SERVICE

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