

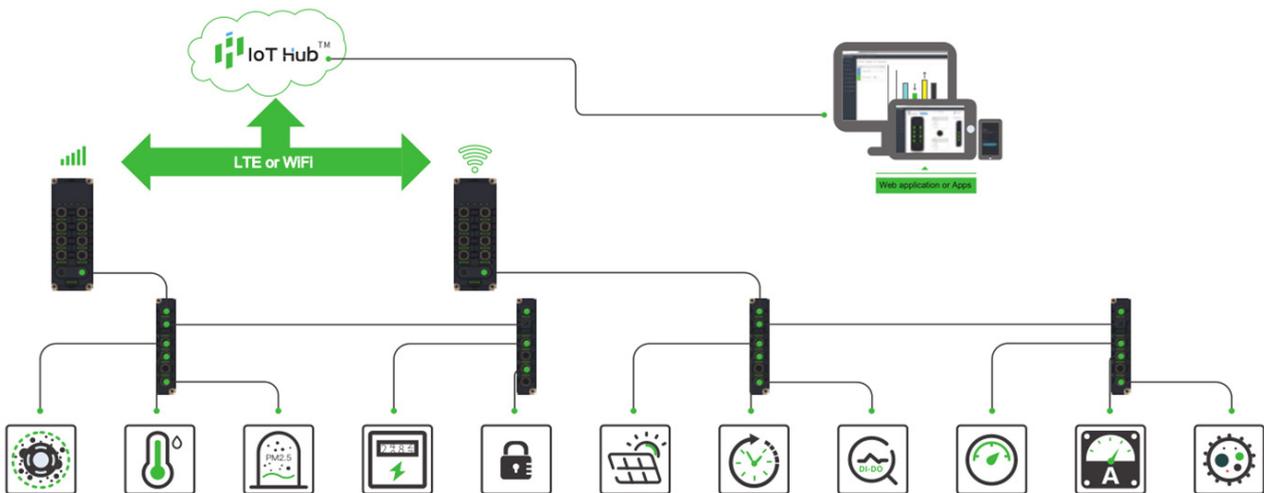
SPMB-04AIO SERIES

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



Spider67 Mobile series network I/O products, through the gateway and extended I/O module of sensors, actuators, to complete the application field data acquisition, processing and logical association control, to meet the needs of users for the collection and monitoring of related data. With standard SP67 application management platform, users can complete the network I/O basic port and channel function configuration, and complete the related analog sensor data conversion formula” custom, the basic I/O logic control ability is realized by using the hardware computing ability, and the security network monitoring function is realized by complementing the cloud logic and local logic. Typical application scenarios include various water (liquid) levels, temperature and humidity, various gases, pressure, vibration, current, voltage and other sensors, support for 0 ... 5 V, 0 ... 10 V, 0 ... 20 mA, 4 ... 20 mA signal types. It can be applied to industrial environment monitoring, equipment key parameters monitoring, running status monitoring, equipment remote check, unattended equipment monitoring and so on.

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PRODUCT FEATURES

HARDWARE CONFIGURATION

- Embedded design, product safety and stability, 7 * 24 h uninterrupted work
- The main Mobile module supports four sub-modules
- Support the sub-module expansion of M12 B-Code interface
- Support multiple status lights to feedback the status of the device in time, including current power supply, device status, network status, extended IO status and other information
- Choose to configure 4G, WiFi or 4G + WiFi communication version, and support external communication antenna, adjust signal gain, ensure wireless communication network signal security and stability
- Standard BLE communication module, near-field fast connection device for configuration
- Support the DC power supply interface of DC 24 V, M12 A-Code male interface
- Support Digital Quantity + analog quantity expand I/O interface, analog quantity total 16, digital quantity total 16, to meet the rich scene needs
- Digital quantity interface support input and output of the custom

DATA ACQUISITION AND CONTROL

- Set digital and analog data acquisition functions and one
- Analog parameters: voltage: 0 ... 5 V, 0.10 V, $\pm 0.1\%$ FSR; current: 0.20 Ma, 4 ... 20 mA, $\pm 0.2\%$ FSR; resolution: 16 bits
- Data acquisition attributes: Voltage: 0 ... 1.2 V (logic low) , 3.5 ... 30 V (logic high) ; input current 6.4 mA; short-circuit current 200 mA (Pulse 400 mA)
- Digital output: -0.7 V, output type PNP
- External output voltage: 24 V DC, external output current: 2 A / single channel, short-circuit current 20 mA / single channel
- Support interface analog quantity and digital quantity linkage work mode, after monitoring analog quantity reaches the specified range, trigger the lower computer equipment to alarm the instruction or turn on and control

SUPPORTING SOFTWARE

- IoT Hub platform connection protocol, support for third-party protocol extension and application development
- Support the platform to set the way of data reporting: periodic reporting
- Support for changing the device to report on a regular basis
- Support remote FOTA upgrade, local serial port upgrade
- Support for operation, alarm, device, data log generation and export at selected time
- Supporting software to set interface linkage rules
- Support for English and Chinese switching

COMMUNICATION

- 4G, WiFi
- With network diagnosis function, support broken line reconnection, reconnection continuous transmission
- Standard BLE communication mode

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POWER PARAMETER

POWER	Nominal voltage	24V DC (10 ... 30V DC) ($\pm 10\%$)
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INTERFACE PARAMETER

ANALOG INPUT		± 20 mA, ± 10 V, 0 ... 20 mA, 4 ... 20 mA, 0 ... 5 V, 0 ... 10 V
	Current signal	$\pm 0.2\%$ FSR
	Resolution	16 bit
	Impedance	120 Ω
	Voltage signal	$\pm 0.1\%$ FSR
	Impedance	1 K Ω

WIRELESS PARAMETER

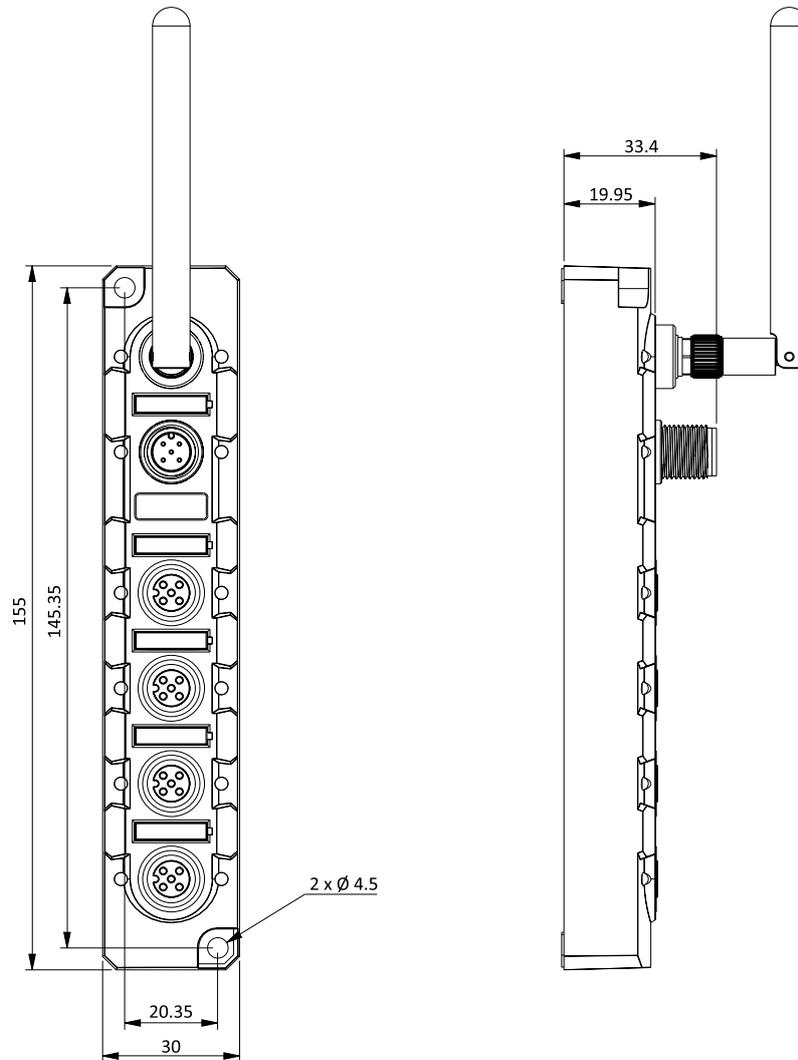
WiFi Module	WLAN	IEEE 802.11b/g/n 2.4GHz
	Safety	WEP, WPA-PSK, WPA2-PSK
	Spectrum range	2412 ... 2484 MHz
	Transmit Power	802.11b: 16 \pm 2dBm (@11 Mbps) 802.11g: 14 \pm 2dBm (@54 Mbps) 802.11n: 13 \pm 2dBm (@HT20, MCS7s)
	Maximum communication distance *	100 meters (open, unobstructed)
NETWORK COMMUNICATION PROTOCOL	IoT Hub platform	Spider67 protocol, CB200 protocol
	Standard protocol	TCP/IP, UDP, DHCP, HTTP, Modbus/TCP
BLUETOOTH MODULE	Spectrum range	2402 ... 2480 MHz
	Transmit power	-20... 4dBm
	Maximum communication distance *	10m (open, unobstructed)

ENVIRONMENTAL CONDITIONS

OPERATING TEMPERATURE / HUMIDITY	-25 ... +70 °C / 0 ... 95% RH No condensation
STORAGE TEMPERATURE / HUMIDITY	-35 ... +85 °C / 0 ... 95% RH No condensation
PROTECTION CLASS	IP67
SEISMIC RESISTANCE GRADE	Compliant with IEC 68-2-6

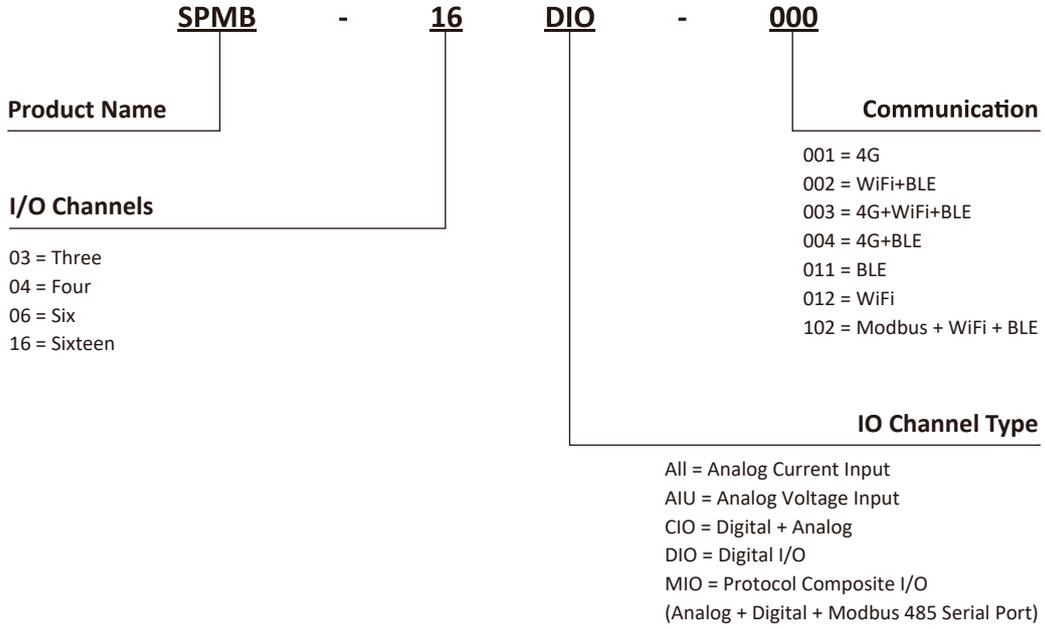
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DIMENSIONS



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ORDER CODE



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SALES AND SERVICE

Tianjin Elco Automation Co., Ltd

No. 12, 4th XEDA Branch Road
Xiqing Economic-Technological Development Area
Tianjin 300385, P.R. China
Office Phone: 022 23788282
E-Mail: info@elco.cn
www.elco-holding.com.cn

Elco Industrie Automation GmbH

Benzstrasse 7
71720 Oberstenfeld,
Deutschland
Office Phone: +49 7062 / 6599-260
E-Mail: info@elco-automation.de
www.elco-automation.de

Elco Automation LLC

1097 Highway 101 South, Suite D-3 Greer
South Carolina 29651, USA
Office Phone: +1 864-581-7431
E-Mail: infousa@elcoautomation.com
www.elcoautomation.com

Elco Industrial Automation Pvt Ltd.

No 80, 1st Main, 2nd Cross, Royal Enclave,
Sidedahalli, Nagasandra Bangalore 560073, India
Office Phone: +91-7259931777
E-Mail: info@elcoautomation.in
www.elcoautomation.com

Elco Automation Korea Ltd.

706, 17 Daehak 4-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, Republic of Korea, 16226
Office Phone: +82-31-216-7890
E-Mail: sales@elcoautomation.co.kr
www.elcoautomation.com