

注意

产品开机前, 请务必详读使用手册。

实际产品的颜色可能会与产品名录上的颜色略微差异。

本产品名录的内容可能会事先没有通知而更改。

M2I Corporation
Man · Machine · Interface

SMART DEVICE



SMART DEVICE

Product Catalog

M2I Corporation

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SMART DEVICE

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MIO系列

MIO-CMR0A / MIO-DI, DO / MIO-AI, AO / MIO-PWR / MIO-COM



MIO REMOTE I/O

特点

- 小型**

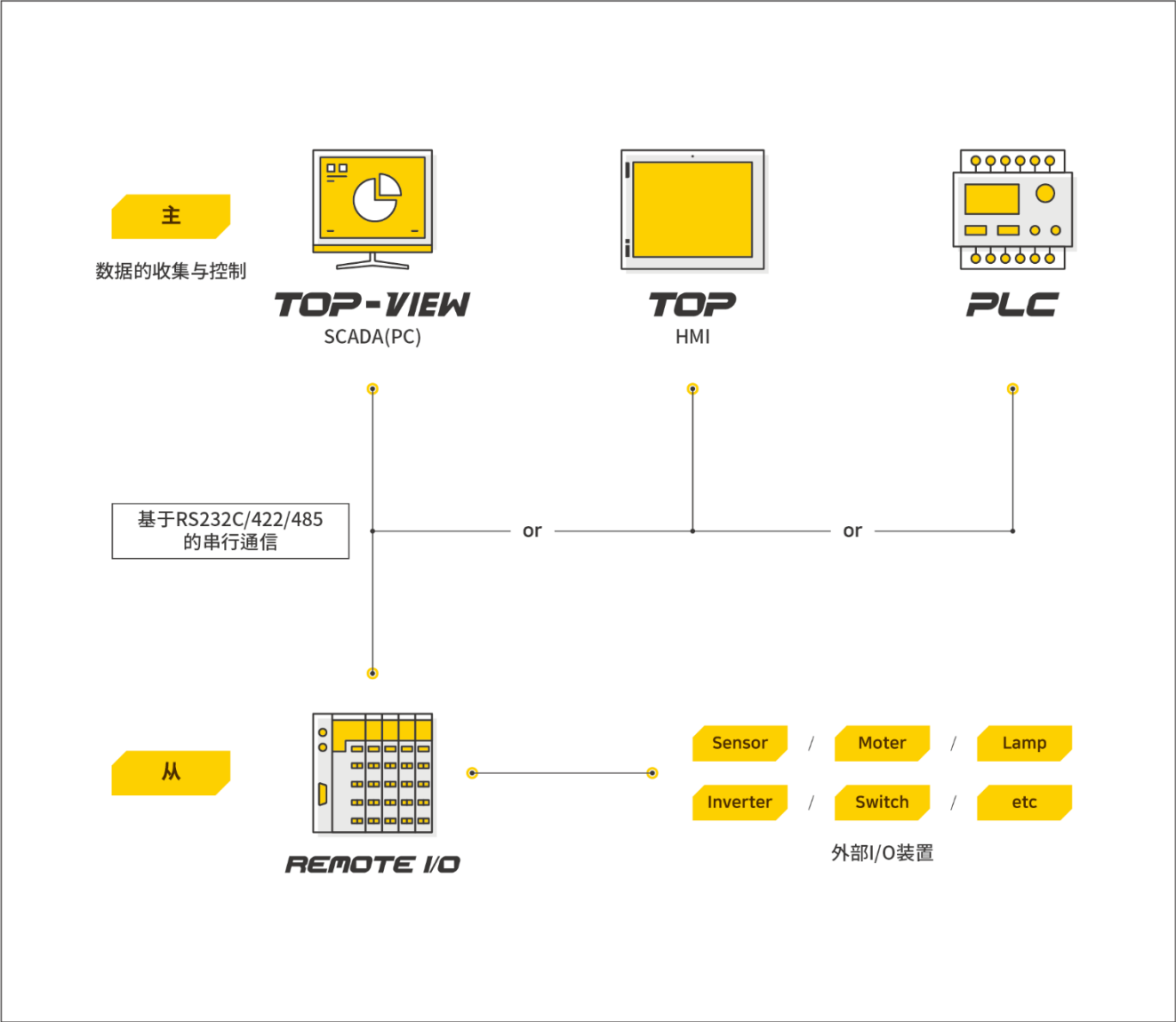
小型尺寸-在最小空间可管理最多节点
- 模块**

按用途随时简单地添加或脱离模块 (最大32个)
- 热插发**

在不关闭系统电源的情况下, 将模块简单交换 运行中可交换模块-便于维护
- 简单**

提供专用MIO Master软件-简单设置

Remote I/O连接图



MIO-CMROA规格

耦合器模块

Functional		MIO-CMROA	MIO-END-01
Power	Type	Protocol	MODBUS RTU/ASCII
		Input Voltage	24Vdc(19.2 ~ 28.8Vdc)
		Power Dissipation	50mA Typical@24Vdc
		Voltage Sag	24Vdc, Within 10ms
		Insulation Resistance	500Vdc, 10MΩ
		Current for I/O Module	1.4A@5Vdc
		Isolation	System Power to Internal Logic: Isolation System Power I/O Driver: Isolation
		Field Power	Supply Voltage: 24Vdc Typ. Supply Voltage Range: 11 ~ 28.8Vdc
		Max. Current Field Power Contact	Max. 7A@24Vdc
Interface		Interface Connector	Connector: DSUB 9Pin x 1
		Physical Interface	RS-232C, 485/422 Asynchronous Data Bit: 7/8 Bits, Stop Bit: 1/2 Bits, Parity Bit: None/Odd/Even Baud Rate: 2400 ~ 187.5kbps
		Max. Length Bus Line	500m@RS-485/422, 10m@RS-232C
		Max. Expansion Module	32 Slots
		Max. Nodes	255 Nodes@RS-485/422
		Node Setting	1 ~ 255
		Baud Rate	Max. 187.5kbps
		USB	Connector: USB Mini - B x 1
		Max. Input Size	Input + Output Max. 256 Byte
Memory		Max. Output Size	Input + Output Max. 256 Byte
Other		Indicator	7 LED MODBUS Status, I/O Module Status, Coupler Status, System Power Status, RX/TX Status, Field Power Status
		Wiring	AWG 26 to 20
Environment		Operation Temperature(℃)	-10 ~ +50
		Storage Temperature(℃)	-20 ~ +60
		Operation Humidity(%RH)	0 ~ 90(No Dew)
		Atmosphere	No Corrosive Gas
		Vibration Endurance	Amplitude: 10≤F < 25Hz(2G) X, Y, Z each Direction(for 30 Minutes)
		Noise Immunity	1000Vp-p(Pulse Width 1μs)
		Static Electricity Discharge	Connective Discharge from EN61000-4-2: ±4kV
		Shock Endurance	10G X, Y, Z each Direction(for 3 Times)
		Ground Connection	Class 3(100Ω Under)
		Protection Classification	IP20
		Certification	CE, KC, UL
Structure		External Dimension(mm)	52.2 x 101 x 75
		Weight(kg)	0.16
		Cooling System	Natural Air Circulation
		Case Material	PC(Resistance to Flame)

MIO-DI, DO规格

I/O模块

Functional		MIO-DIN08-01	MIO-DIP08-01	MIO-DON08-01	MIO-DOP08-01	MIO-DOR04-01
Type	Input/Output Type	8 Channels Sink Type, Input	8 Channels Source Type, Input	8 Channels Sink Type, Output	8 Channels Source Type, Output	4 Channels Relay Type, Output
Power	Input/Output Voltage	24Vdc Typ. On-State Min. 10.2Vdc ~ Max. 28.8Vdc, Off-State Max. 5Vdc		24Vdc Typ. Min. 11.0Vdc ~ Max. 28.8Vdc, On-State Voltage Drop: Max. 0.3Vdc@25℃ Off-State Leakage Current: Max. 50uA		A Contact, 24Vdc
	Power Dissipation	Max. 70mA@5.0Vdc		Max. 90mA@5.0Vdc		Max. 200mA@5.0Vdc
	Input/Output Current in On State	Max. 6mA/ Channel@28.8Vdc		Max. 0.5A/ Channel@28.8Vdc		2A/Channel@24Vdc
Interface	Max. On-State Voltage Drop	-		Max. 0.3Vdc@25℃		0.5V@2.0A, Resistive Load, 24Vdc
	Off-State Leakage Current	-		Max. 50uA		Max. 1.5mA
	Typ. Input Impedance	Typ. 4.7KΩ		-		
	Input/Output Signal Delay	Off to On: Max. 0.1ms On to Off: Max. 0.5ms		Off to On: Max. 0.3ms On to Off: Max. 0.5ms		Off to On: Max. 3ms On to Off: Max. 3ms
	Input Filter(Digital)	0.5ms		-		
	Isolation	Photocoupler				Relay Coil/ Contact Isolation
	Common Type	2COM(Single Common), 24Vdc	2COM(Single Common), 0Vdc	2COM(Single Common), 24Vdc	2COM(Single Common), 0Vdc	4COM(1COM/1Channel)
	Field Power	Supply Voltage: 24Vdc Typ. Supply Voltage Range: 11 ~ 28.8Vdc				-
	Other	Wiring	AWG 26 to 20			
Pin No.		Removable Terminal Block 10P				
Indicator		9 LED 8 Channel States, 1 Operating State				5 LED 4 Channel States, 1 Operating State
Environment	Operation Temperature(℃)	-10 ~ +50				
	Storage Temperature(℃)	-20 ~ +60				
	Operation Humidity(%RH)	0 ~ 90(No dew)				
	Atmosphere	No Corrosive Gas				
	Vibration Endurance	Amplitude: 10≤F<25Hz(2G) X, Y, Z each Direction(for 30 Minutes)				
	Noise Immunity	1000Vp-p(Pulse Width 1μs)				
	Static Electricity Discharge	Connective Discharge from EN61000-4-2: ±4kV				
	Shock Endurance	10G X, Y, Z each Direction(for 3 Times)				
	Ground Connection	Class 3(100Ω Under)				
	Protection Classification	IP20				
	Certification	CE, KC, UL				
	Structure	External Dimension(mm)	12 x 101 x 75			
Weight(kg)		0.06				
Cooling System		Natural Air Circulation				
Case Material		PC(Resistance to Flame)				

MIO-DI, DO规格

I/O模块

Functional		MIO-DIN16-01	MIO-DIP16-01	MIO-DON16-01	MIO-DOP16-01	
Type	Input/Output Type	16 Channels Sink Type, Input	16 Channels Source Type, Input	16 Channels Sink Type, Output	16 Channels Source Type, Output	
Power	Input/Output Voltage	24Vdc Typ. On-State Min. 10.2Vdc ~ Max. 28.8Vdc, Off-State Max. 5Vdc		24Vdc Typ. Min. 11.0Vdc ~ Max. 28.8Vdc, On-State Voltage Drop: Max. 0.3Vdc@25℃ Off-State Leakage Current: Max. 50uA		
	Power Dissipation	Max. 70mA@5.0Vdc		Max. 120mA@5.0Vdc		
	Input/Output Current in On State	Max. 6mA/ Channel@28.8Vdc		Max. 0.5A/ Channel@28.8Vdc		
Interface	Max. On-State Voltage Drop	-		Max. 0.3Vdc@25℃		
	Off-State Leakage Current	-		Max. 50uA		
	Typ. Input Impedance	Typ. 4.7KΩ		-		
	Input/Output Signal Delay	Off to On: Max. 0.1ms On to Off: Max. 0.5ms		Off to On: Max. 0.3ms On to Off: Max. 0.5ms		
	Input Filter(Digital)	0.5ms		-		
	Isolation	Photocoupler				
	Common Type	Not Support				
	Field Power	Supply Voltage: 24Vdc Typ. Supply Voltage Range: 11 ~ 28.8Vdc				
	Other	Wiring	AWG 26 to 20			
Pin No.		Removable Terminal Block 16P				
Indicator		17 LED 16 Channel States, 1 Operating State				
Environment	Operation Temperature(℃)	-10 ~ +50				
	Storage Temperature(℃)	-20 ~ +60				
	Operation Humidity(%RH)	0 ~ 90(No dew)				
	Atmosphere	No Corrosive Gas				
	Vibration Endurance	Amplitude: 10≤F < 25Hz(2G) X, Y, Z each Direction(for 30 Minutes)				
	Noise Immunity	1000Vp-p(Pulse Width 1μs)				
	Static Electricity Discharge	Connective Discharge from EN61000-4-2: ±4kV				
	Shock Endurance	10G X, Y, Z each Direction(for 3 Times)				
	Ground Connection	Class 3(100Ω Under)				
	Protection Classification	IP20				
	Certification	CE, KC, UL				
	Structure	External Dimension(mm)	12 x 101 x 75			
		Weight(kg)	0.06			
Cooling System		Natural Air Circulation				
Case Material		PC(Resistance to Flame)				

MIO-AI, AO规格

I/O模块

Functional		MIO-AIR02-01	MIO-AIV04-01	MIO-AIC04-01	MIO-AOV04-01	MIO-AOC04-01	
Type	Input/Output Type	2 Channels Analog RTD Type	4 Channels Analog Voltage Type	4 Channels Analog Current Type	4 Channels Analog Voltage Type	4 Channels Analog Current Type	
	Sensor Type and Input /Output Range	PT100 * -200.0 to +850.0℃	0 ~ 5 Vdc	0 ~ 20mA	0 ~ 5 Vdc	0 ~ 20mA	
Power	Power Dissipation	Max. 70mA@5.0Vdc	Max. 200mA@5.0Vdc				
	Field Power	Max. 60mA@24Vdc					
Characteristic	Typ. Input Impedance	-	Min. 500KΩ	Max. 250Ω	-		
	Load	-	-	-	Min. 1KΩ	Max. 500Ω	
	Data Format	16bits Integer					
	Resolution	0.0312℃/1bit	16bits, 0.076mV/1bit	16bits, 0.3uA/bit	16bits, 0.076mV/1bit	16bits, 0.3uA/bit	
	Conversion Time	Approx. 70ms, All Channel@50Hz	4ms/All Channel				
	Module Error	±0.1% Full Scale@+25℃, ±0.3% Full Scale@-10℃, +50℃					
	Isolation	I/O to Logic: Capacitive Isolation, External Power : Transformer Isolation					
	Common Type	2COM (1Common/1Channel)	4COM (Single Common)				
	Other	Wiring	AWG 26 to 20				
		Pin No.	Removable Terminal Block 10P				
Indicator		3 LED 2 Channel States, 1 Operating State	5 LED 4 Channel States, 1 Operating State				
Environment	Operation Temperature(℃)	-10 ~ +50					
	Storage Temperature(℃)	-20 ~ +60					
	Operation Humidity(%RH)	0 ~ 90(No dew)					
	Atmosphere	No Corrosive Gas					
	Vibration Endurance	Amplitude: 10≤F < 25Hz(2G) X, Y, Z each Direction(for 30 Minutes)					
	Noise Immunity	1000Vp-p(Pulse Width 1μs)					
	Static Electricity Discharge	Connective Discharge from EN61000-4-2: ±4kV					
	Shock Endurance	10G X, Y, Z each Direction(for 3 Times)					
	Ground Connection	Class 3(100Ω Under)					
	Protection Classification	IP20					
	Certification	CE, KC, UL					
Structure	External Dimension(mm)	12 x 101 x 75					
	Weight(kg)	0.06					
	Cooling System	Natural Air Circulation					
	Case Material	PC(Resistance to Flame)					

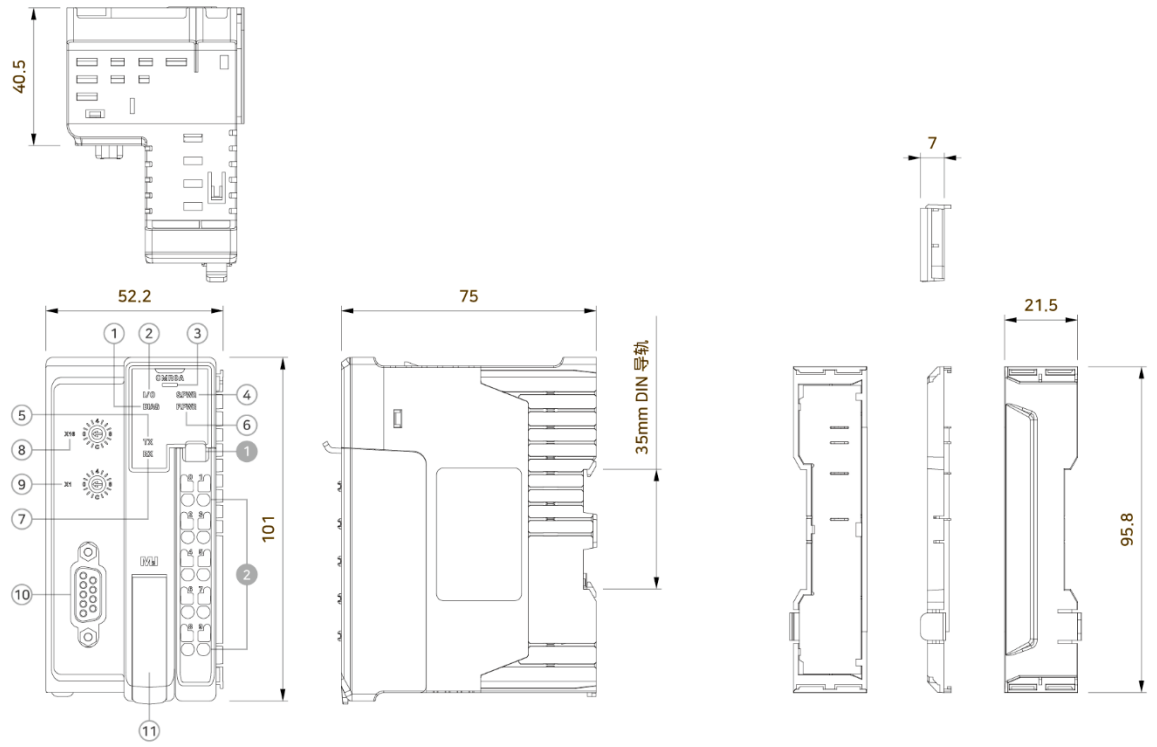
MIO-PWR, COM规格

扩展模块

	Functional	MIO-PWR0A	MIO-PWR0B	MIO-COM0A	MIO-COM0B	MIO-COM0C
Power	Input System Voltage	24Vdc Typ.(20V ~ 28V)		-		
	Voltage Sag	24Vdc, Within 10ms		-		
	Insulation Resistance	500Vdc, 10MΩ		-		
	Current for I/O Module	1.4A@5Vdc		-		
	Isolation	System Power to Internal Logic: Isolation System Power I/O Driver: Isolation		-		
	Field Power	Supply Voltage: 24Vdc Typ. Supply Voltage Range: 11 ~ 28.8Vdc				
	Max. Current Field Power Contact	Max. 7A@24Vdc				
Characteristic	Common Type	Not Support		16COM(Single Common) 24Vdc	16COM(Single Common) 0Vdc	8COM(Single Common) 24Vdc, 0Vdc
Other	Wiring	AWG 26 to 20				
	Pin No.	Removable Terminal Block 10P		Removable Terminal Block 16P		
	Indicator	3 LED System Power Status, Module Status, Field Power Status	2 LED Module Status, Field Power Status	1 LED Module Status		
Environment	Operation Temperature(℃)	-10 ~ +50				
	Storage Temperature(℃)	-20 ~ +60				
	Operation Humidity(%RH)	0 ~ 90(No dew)				
	Atmosphere	No Corrosive Gas				
	Vibration Endurance	Amplitude: 10≤F<25Hz(2G) X, Y, Z each Direction(for 30 Minutes)				
	Noise Immunity	1000Vp-p(Pulse Width 1μs)				
	Static Electricity Discharge	Connective Discharge from EN61000-4-2: ±4kV				
	Shock Endurance	10G X, Y, Z each Direction(for 3 Times)				
	Ground Connection	Class 3(100Ω Under)				
	Protection Classification	IP20				
	Certification	CE, KC, UL	CE, UL			
Structure	External Dimension(mm)	12 x 101 x 75				
	Weight(kg)	0.06				
	Cooling System	Natural Air Circulation				
	Case Material	PC(Resistance to Flame)				

图纸

耦合器模块 MIO-CMR0A, MIO-END-01



- ① MODBUS状态指示灯LED

② I/O模块状态指示灯LED

③ 远程I/O耦合器状态LED
- ④ 系统电源状态LED

⑤ TX状态指示灯LED

⑥ 现场状态指示灯LED
- ⑦ RX状态指示灯LED

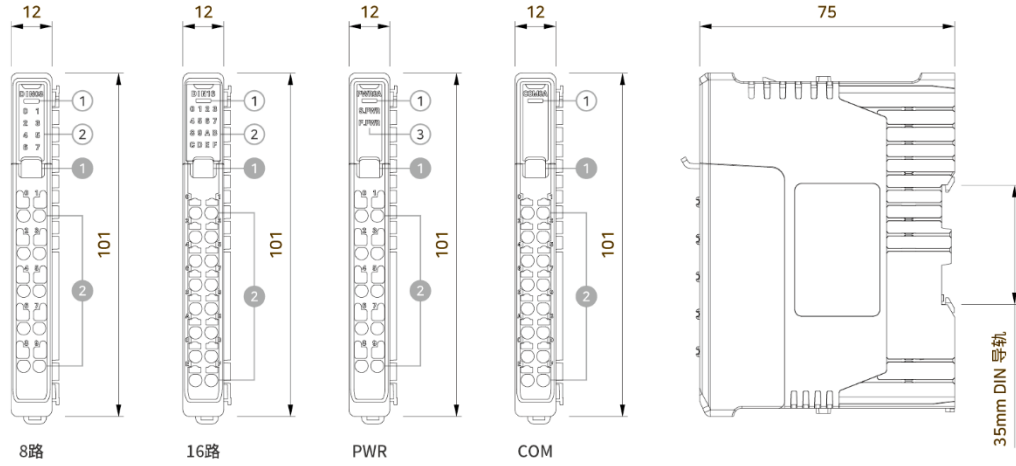
⑧ 结点设定开关 (16倍率)

⑨ 结点设定开关 (1倍率)
- ⑩ MODBUS通信接口

⑪ USB连接器盖
- ① 挂钩

② 通道节点

I/O, 扩展模块



- ① 状态指示灯LED

② 结点输入状态LED

③ 系统电源, 现场电源状态LED
- ① 挂钩

② 通道节点

MIO系列

网关(MIO-LPG00) / 终端节点(MIO-LPE00)



MIO LoRa

特点

- 通过LoRa通信技术可构成自己的网络与协议

不需要额外的通信费即可使用
- 一个终端节点提供多样的输入与输出

数字输入与输出, 继电器节点, 模拟电流与电压
- 通过各种测试的工业用产品

强力的性能

通过冲击、噪音、静电、温度测试
- 提供简便的设定方式

使用模式按钮LoRa网关与终端节点之间可以自动设置

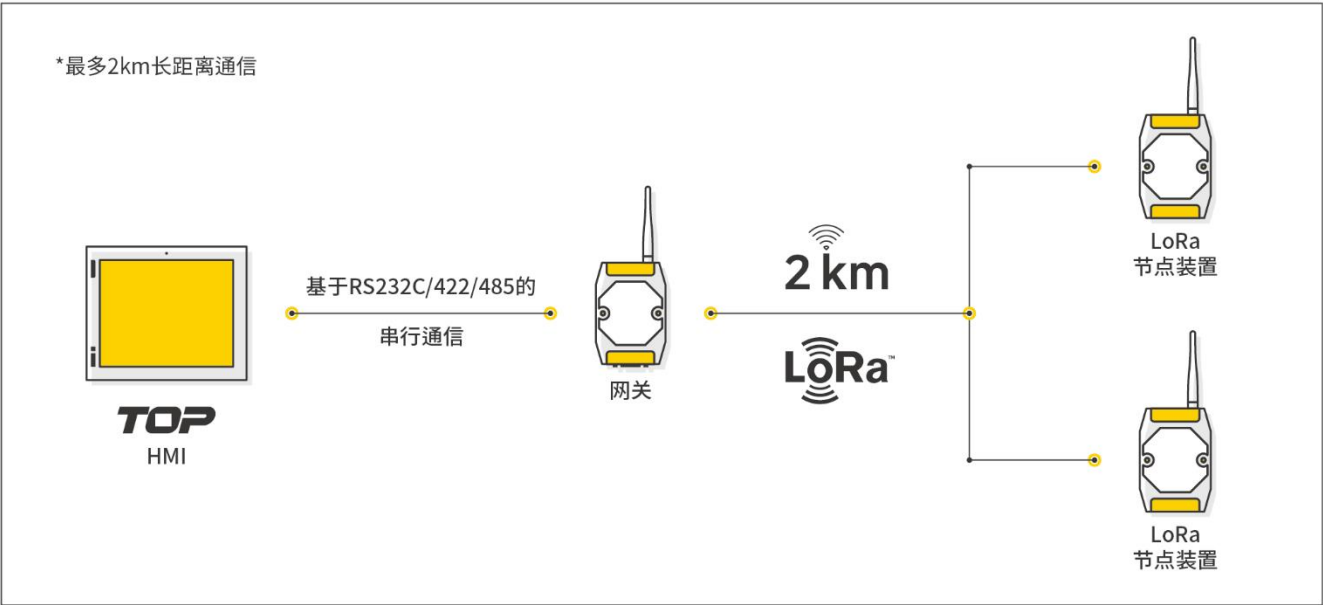
使用旋转开关可以变更频率与SF设置

LoRa使用方法

*详细的使用方法请参阅产品使用手册。

- 01 用USB电缆从[M2I LoRa 设置工具]下载LoRa网关与终端节点的设置内容
- 02 使用串行通信 (RS-232C/422/485) 连接TOP与LoRa网关
- 03 在TOP Design Studio软件的串行端口添加LoRa网关, 在通讯设置页面按照LoRa终端阶段的数添加Device ID
- ! 在TOP上可监督与控制LoRa网关的数据
而且, LoRa网关使用LoRa通信可接收LoRa终端节点的数据, 或者向终端节点发送

LoRa连接图



LoRa规格

网关

Functional		MIO-LPG00
Power	Input Voltage	24Vdc(20 ~ 28Vdc)
	Power Dissipation	3W
	Voltage Sag	24Vdc, Within 10ms
	Insulation Resistance	500Vdc, 10MΩ
LoRa RF	RF Frequency	TX: 922.1 ~ 923.1 MHz, RX: 923.3 MHz
	Output Power	Max. 25mW(+14dBm, With Antenna)
	Communication Distance	Within 2Km
	Antenna	1T1R Dipole, +3.2dBm
	Security Setting	AES-128
Interface	Serial Comm.	RS-232C, 485/422 Asynchronous Data Bit: 7/8 Bits, Stop Bit: 1/2 Bits, Parity Bit: None/Odd/Even, Baud Rate: 2400 ~ 115.2kbps Connector: DSUB 9Pin x 1
	USB	Connector: USB Mini - B x 1
Other	Status LED	4 LEDs(Power, LoRa, Serial TX, RX) Built in
	Frequency Selection	Rotary Switch, Select 1 Out of 6 Channels
	SF Selection	Rotary Switch, Select 7 Out of 12 Setting
	Reset Button	Support
	Mode Button	Support
Environment	Operation Temperature(℃)	-10 ~ +50
	Storage Temperature(℃)	-20 ~ +60
	Operation Humidity(%RH)	0 ~ 90(No Dew)
	Atmosphere	No Corrosive Gas
	Vibration Endurance	Amplitude: 10≤F < 25Hz(2G) X, Y, Z each Direction(for 30 Minutes)
	Noise Immunity	1000Vp-p(Pulse Width 1μs)
	Static Electricity Discharge	Connective Discharge from EN61000-4-2: ±4kV
	Shock Endurance	10G X, Y, Z each Direction(for 3 Times)
	Ground Connection	Class 3(100Ω Under)
	Protection Classification	IP20
Structure	Certification	KC
	External Dimension(mm)	72 x 305 x 44.6(*With Antenna)
	Weight(kg)	0.14
	Cooling System	Natural Air Circulation
	Case Material	ABS(Resistance to Flame)

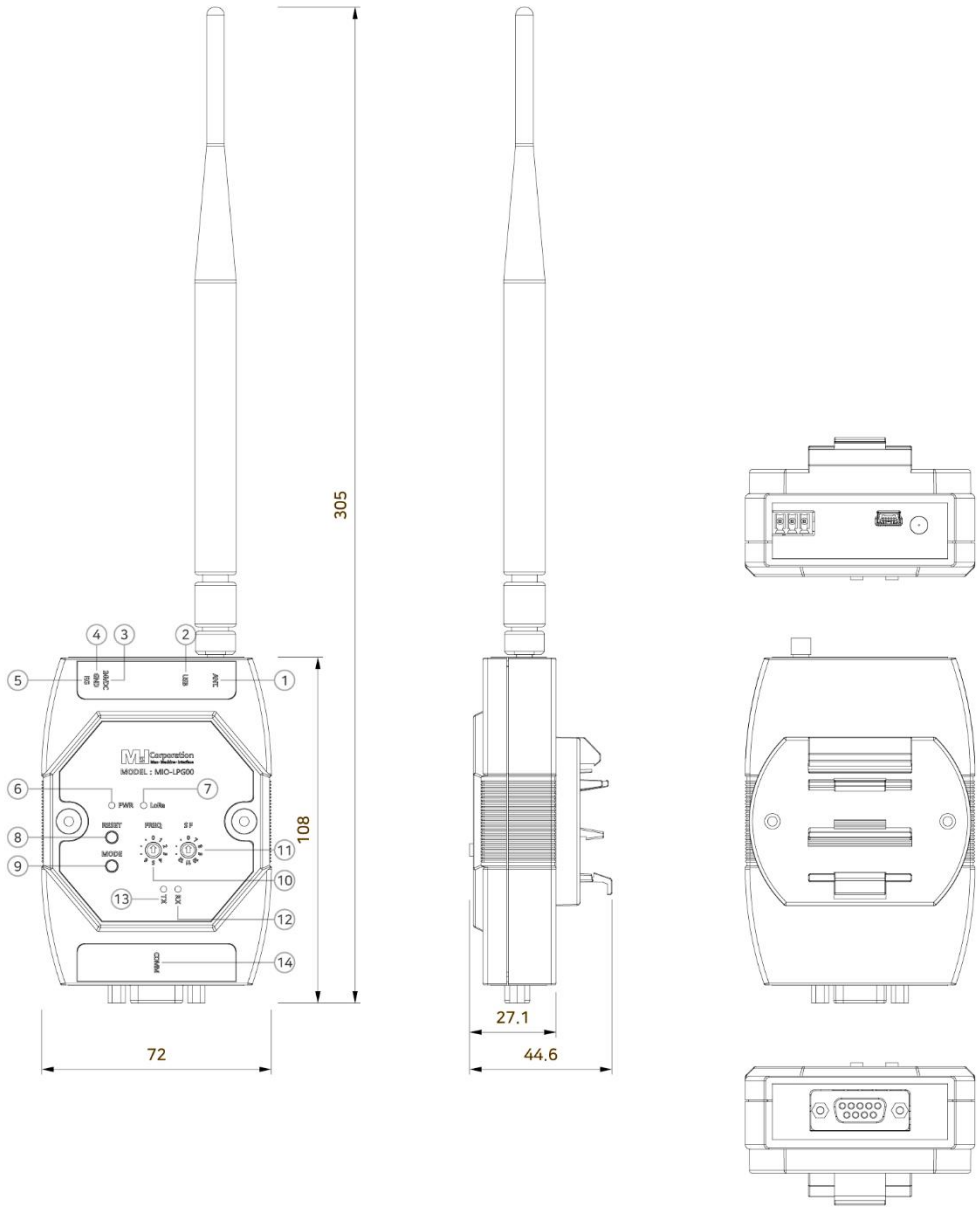
LoRa规格

终端节点

Functional		MIO-LPE00
Power	Input Voltage	24Vdc(20 ~ 28Vdc)
	Power Dissipation	3W
	Voltage Sag	24Vdc, Within 10ms
	Insulation Resistance	500Vdc, 10MΩ
LoRa RF	RF Frequency	TX: 922.1 ~ 923.1 MHz, RX: 923.3 MHz
	Output Power	Max. 25mW(+14dBm, With Antenna)
	Communication Distance	Within 2Km
	Antenna	1T1R Dipole, +3.2dBm
	Security Setting	AES-128
I/O Interface	Serial Comm.	-
	USB	Connector: USB Mini - B x 1
	Analog Current Input	Connector 3.5mm TB
		Assigned Channel 2 Channel
		Input Range 4 ~ 20 mA
		Resolution and Accuracy 16-bit, ±0.1%@25℃ or better
	Analog Voltage Input	Connector 3.5mm TB
		Assigned Channel 2 Channel
		Input Range 0 ~ 5Vdc
		Resolution and Accuracy 16-bit, ±0.1%@25℃ or better
	Digital Input	Connector 3.5mm TB
		Type 3 Channel Source or Sink
		Output Current in On State Max. 4mA/Channel @24Vdc
	Digital Output	Connector 3.5mm TB
		Type 2 Channel Sink
		Output Current in On State Max. 0.5A/Channel @24Vdc
Other	Relay Output	Connector 3.5mm TB
		Type 2 Channel Relay
		Output Current in On State 1A/30Vdc, 0.3A/125Vac
	Status LED	9 LEDs(Power, LoRa, Each I/O: 7LEDs) Built in
	Frequency Selection	Rotary Switch, Select 1 Out of 6 Channels
	SF Selection	Rotary Switch, Select 7 Out of 12 Setting
	Reset Button	Support
	Mode Button	Support
Environment	Operation Temperature(℃)	-10 ~ +50
	Storage Temperature(℃)	-20 ~ +60
	Operation Humidity(%RH)	0 ~ 90(No Dew)
	Atmosphere	No Corrosive Gas
	Vibration Endurance	Amplitude: 10≤F < 25Hz(2G) X, Y, Z each Direction(for 30 Minutes)
	Noise Immunity	1000Vp-p(Pulse Width 1μs)
	Static Electricity Discharge	Connective Discharge from EN61000-4-2: ±4kV
	Shock Endurance	10G X, Y, Z each Direction(for 3 Times)
	Ground Connection	Class 3(100Ω Under)
	Protection Classification	IP20
Structure	Certification	KC
	External Dimension(mm)	72 x 300 x 44.6(*With Antenna)
	Weight(kg)	0.14
	Cooling System	Natural Air Circulation
	Case Material	ABS(Resistance to Flame)

图纸

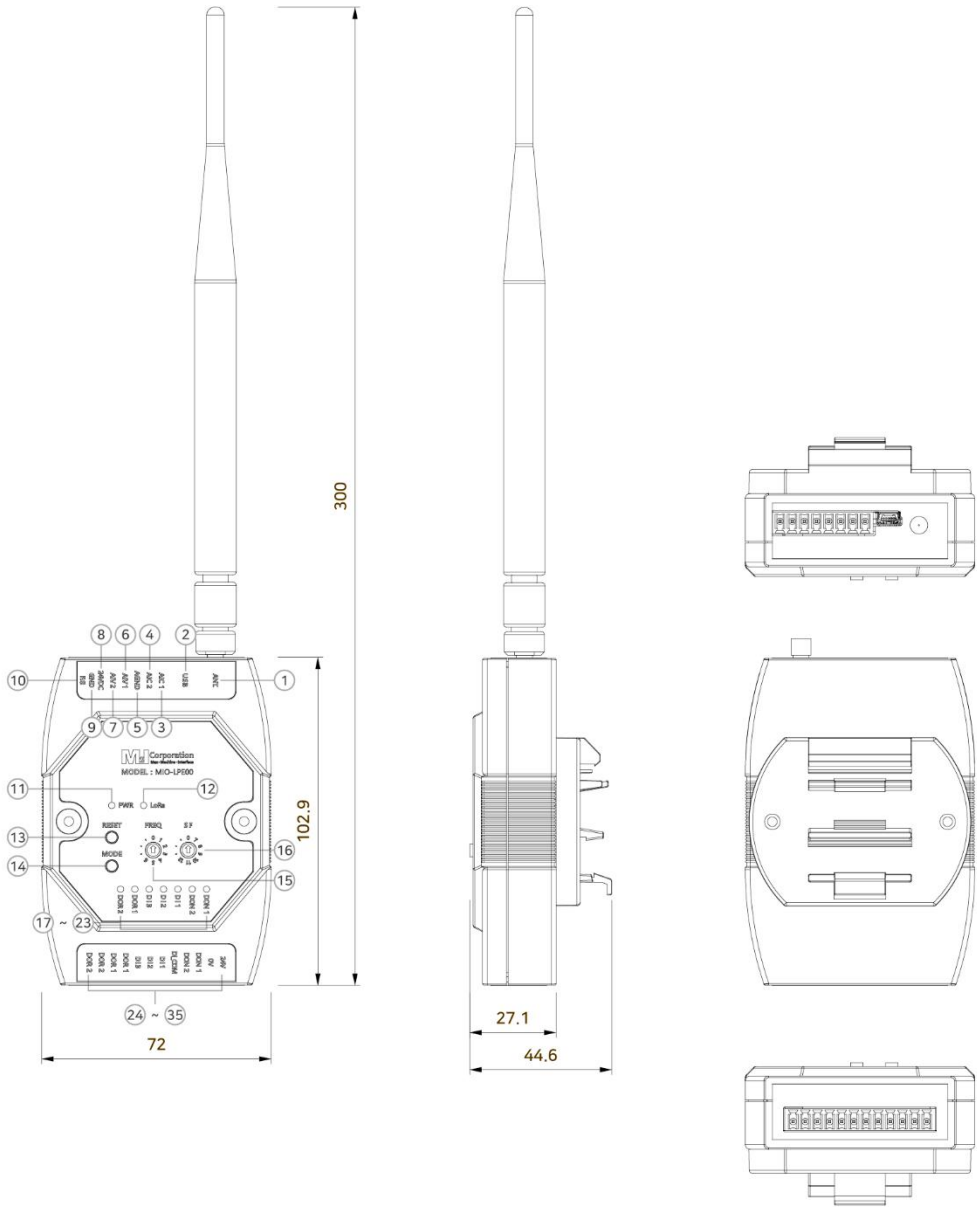
MIO-LPG00



- ① LoRa天线接口
- ② USB接口
- ③ 系统电源DC 24V输入端子
- ④ 系统电源GND端子
- ⑤ F.G端子
- ⑥ 系统电源状态指示灯
- ⑦ LoRa通信状态指示灯
- ⑧ 系统重启开关
- ⑨ 模式操作开关
- ⑩ 频率通道[0 ~ 6]开关
- ⑪ SF设置[0], [7 ~ 12]开关
- ⑫ COMM通信的接收状态指示灯
- ⑬ COMM通信的发送状态指示灯
- ⑭ 串行通信端口

图纸

MIO-LPE00



- ① LoRa天线接口
- ② USB接口
- ③ 模拟电流输入1号通道端子
- ④ 模拟电流输入2号通道端子
- ⑤ AIC 1, 2 / AIV 1, 2共同端子
*现场电源连接端子
**源式连接时使用
- ⑥ 模拟电压输入1号通道端子
- ⑦ 模拟电压输入2号通道端子
- ⑧ 系统电源DC 24V输入端子
- ⑨ 系统电源GND端子
- ⑩ F.G端子
- ⑪ 系统电源状态指示灯
- ⑫ LoRa通信状态指示灯
- ⑬ 系统重启开关
- ⑭ 模式操作开关
- ⑮ 频率通道[0 ~ 6]开关
- ⑯ SF设置[0], [7 ~ 12]开关
- ⑰ ~ ⑳ 操作状态指示灯LED
- ㉑ ~ ㉓ I/O输入出端子

MGW系列

IoT Gateway



特点

- 提供通信协议转换器功能
(提供多个通讯驱动器)**

提供跟HMI相同的专用通讯协议库
(基于地址的PLC)
- 提供标准导轨与vesa孔**

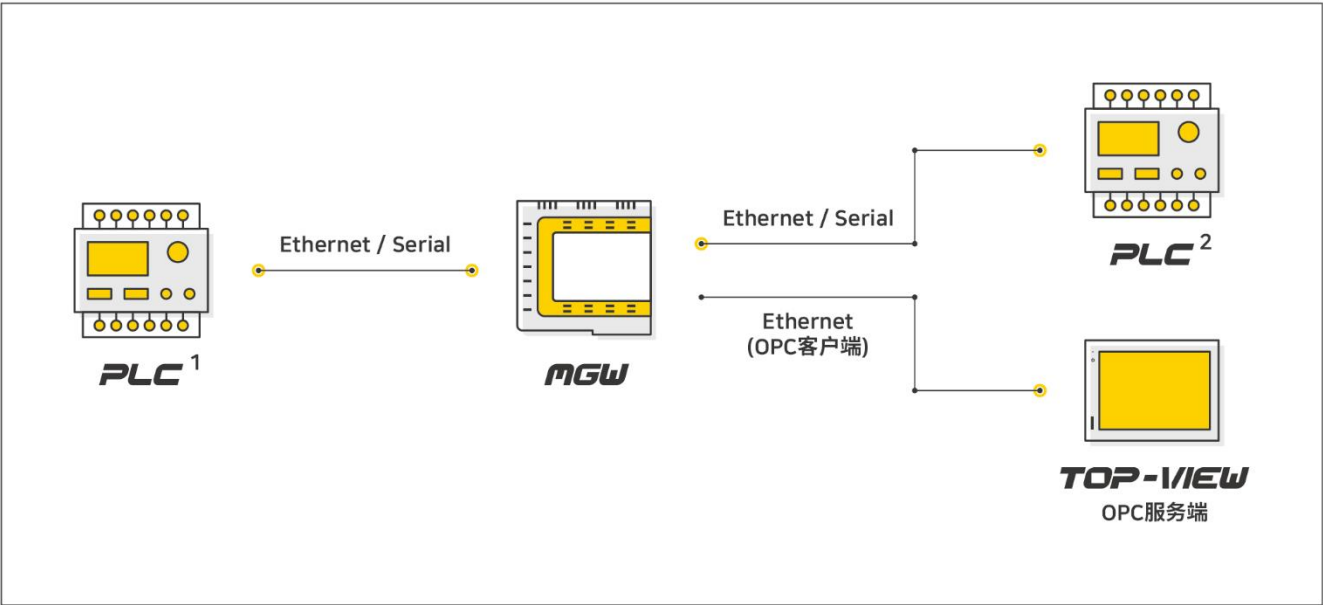
用标准导轨 (DIN Rail) 在任何场所容易安装
用标准VESA挂架 (*选项) 跟显示器简单结合
- 使用TOP Design Studio软件可执行**

使用M2I的HMI和SCADA的用户
使用同软件容易执行
- 提供以太网和串行端口2个**

支持不同IP的异构网络接口
提供COM1/2 DSUB 9针 (RS-232C, RS-422/485)
- HDMI输出**

与各种显示器容易连接
*M2I触摸显示器即将上市

MGW连接图

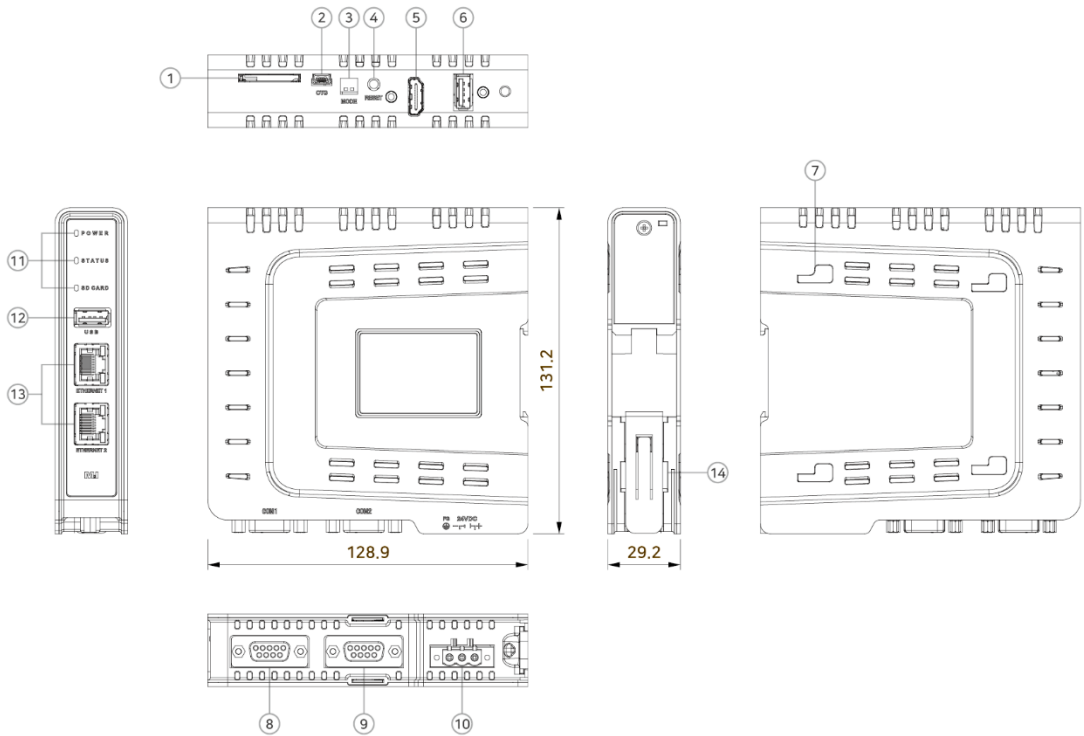


MGW规格

Functional		MGW-BH1000D
Interface	Serial COM1	RS-232C, RS-422/485 Asynchronous +5Vdc PWR Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kbps Connector: DSUB 9pin x 1
	Serial COM2	RS-232C, RS-422/485 Asynchronous Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kbps Connector: DSUB 9pin x 1
	Ethernet	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: RJ-45 x 2
	USB Host	USB 2.0 Compatible, Output 5Vdc/0.5A Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol) Connector: USB Type A x 2
	USB OTG	USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol) Connector: USB Mini-B x 1
	SD Card	SD Card Slot x 1, SDHC(MAX 32GB)
	HDMI Output	HDMI v1.4, HDMI Output, Max. Resolution: 1280x720 at 60Hz Connector: HDMI x 1
	Printer	Roll Printer(EPSON protocol)
Memory & Others	Screen Memory	128MB
	Backup Memory	512KB: System buffer(10K Word), Including Alarm/Logging/Recipe
	Backup Period	Permanent
	Real Time Clock	Built in
	Status LED	3 LEDs(Power, Operation, SD Card) Built in
Power	Input Voltage	20~28Vdc
	Power Consumption	10W
	Voltage Sag	24Vdc, Within 10ms
	Insulation Resistance	500Vdc, 10MΩ
Environment	Operation Temperature(℃)	-10 ~ +50
	Storage Temperature(℃)	-20 ~ +60
	Operation Humidity(%RH)	0 ~ 90(No dew)
	Atmosphere	No corrosive gas
	Vibration Endurance	Amplitude: 10≤F<25Hz(2G) X,Y,Z each direction(for 30 minutes)
	Noise Immunity	1000Vp-p(Pulse width 1μs)
	Electrostatic Discharge	Connective discharge from EN61000-4-2: ±4kV
	Shock Endurance	10G X,Y,Z each direction(for 3 times)
	Ground Connection	Class 3(100Ω or less)
	Protection Classification	IP20
Structure	Certification	CE, KC, UL, cUL
	External Dimension(mm)	128.9x131.2x29.2
	Weight(kg)	0.23
	Installation Method	Standard DIN Rail(35mm), VESA
	Cooling System	Natural air circulation
	Case Material	Plastic

图纸

MGW-BH1000D



- ① SD卡插槽

② USB OTG

③ 模式开关
- ④ 重启开关

⑤ HDMI

⑥ USB Host #1
- ⑦ VESA挂架

⑧ 串行COM1

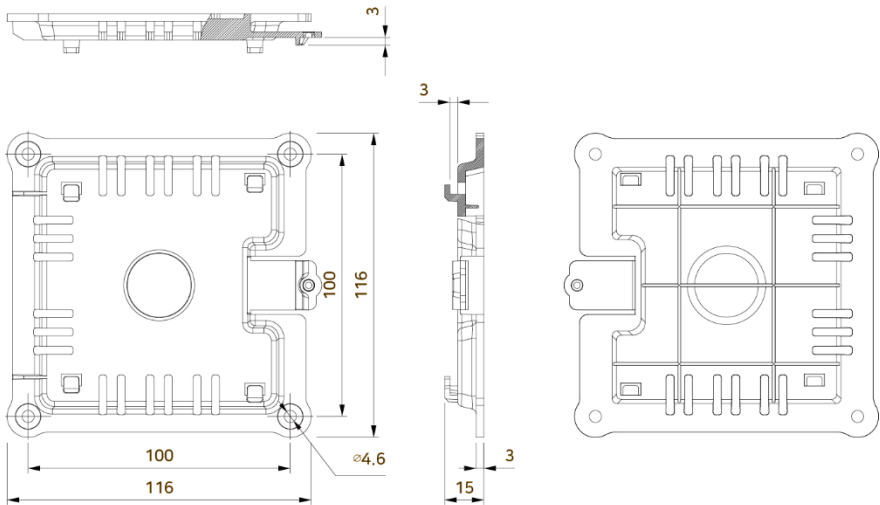
⑨ 串行COM2
- ⑩ 电源输入

⑪ 状态LED

⑫ USB Host #2
- ⑬ 以太网端口

⑭ DIN导轨

VESA挂架 (*选项)



MSR系列

MSR-B2MWA / MSR-B2MWB

CE (进行中)



特点

- 又坚固又方便的设计**

抗冲击设计与聚氨酯材料机身
优秀手感、小巧便携设计
提供固定用束带
- 多样的有线与无线接口**

2.4GHz RF 无线通信 (用USB接收器连接)
USB通信 (用USB电缆连接)
IrDA紫外线通信 (与本社HMI专用通信)
- 条码数据的安全管理**

一维码与二维码识别
搭载可保存25,000个的条形码信息的内存
安全的数据管理
- 高效的运行时间**

完全充电时可使用13个小时的大容量电池
提供节电功能

接口

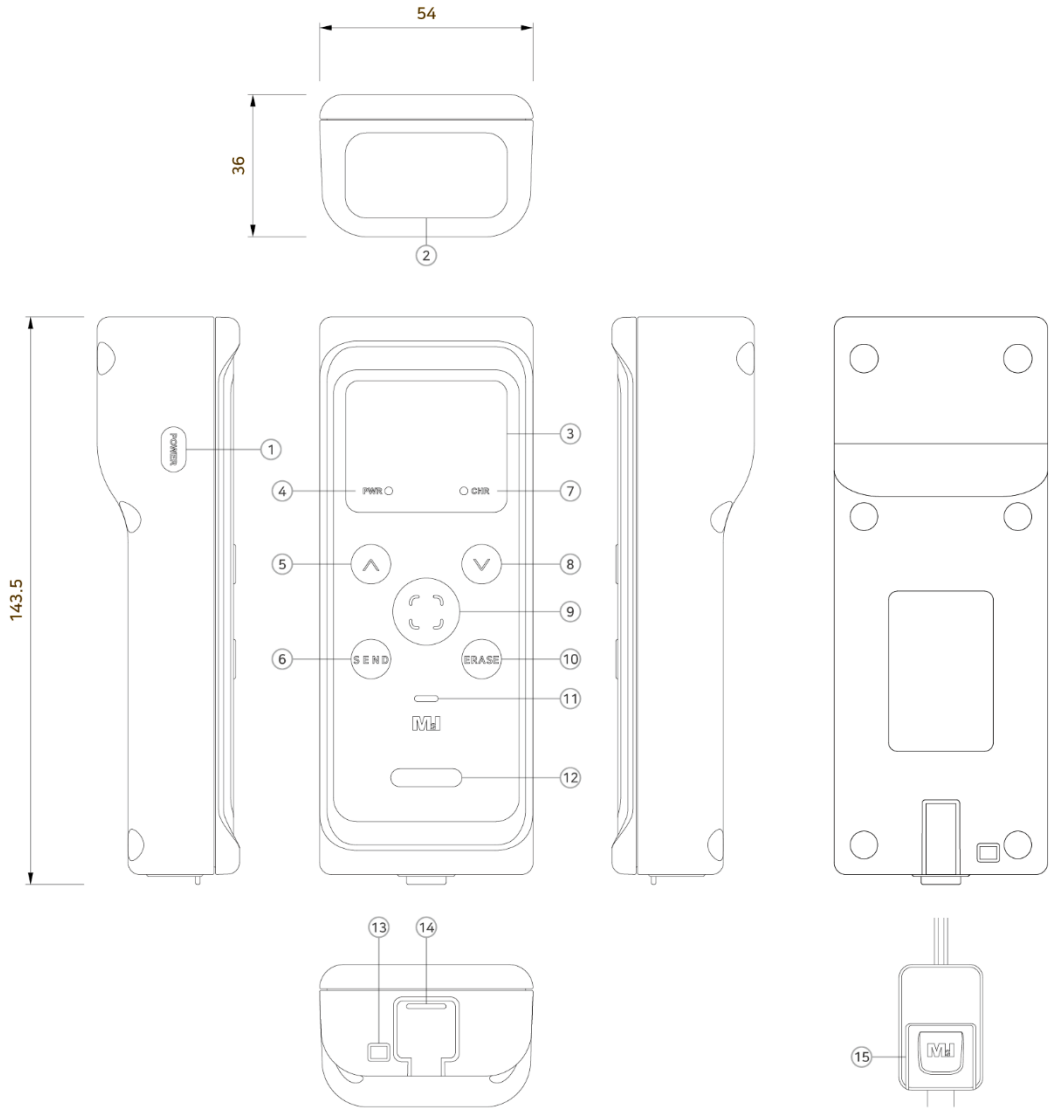


MSR-B2MWA/B规格

Functional		MSR-B2MWA	MSR-B2MWB	MSR-B2MWA-DONGLE
Display	Display Type	1.3" OLED		-
	Color	Gray		Gray
	Display Area(mm)	31.42 x 16.7		-
	Resolution(dot)	128 x 64		-
	Display Life	50,000 Hours		-
Barcode	Type	640 x 400, 1D/2D Barcode	1280 x 960, 1D/2D Barcode	-
	Symbologies	Code 39, Code 128, PDF417, UPC, Data Matrix, QR Code		-
Interface	USB	USB Type C, V1.1 Compatible 1 Channel		USB A Type, V1.1 Compatible 1 Channel
	IrDA	Compliant to IrDA Physical Layer Standard Up to 115.2 kbit/s(SIR), Range Up to 1.0M in Open Space Connection with M2I HMI Equipment		-
	2.4GHz RF	2322MHz to 2527MHz, IEEE 802.15.4, Range Up to 15M in Open Space		-
	Function Key	Unlock Type Push Switch 6EA (Power/Scan/Send/Erase/Up/Down)		-
	Storage Memory	512KB		-
Battery	Rechargable Battery	Single Li-ion 3.7Vdc 1800mAh Operating Time: 13 Hours Charging Time: 5.5 Hours(Non-Operating)		-
Power	Consumption	3W		1W
Other	Status LED	2 LEDs(Power, Charge) Built in		-
	Operation Temperature(℃)	+10 ~ +45		-10 ~ +50
	Storage Temperature(℃)	-20 ~ +60		-20 ~ +60
	Protection Classification	Product Body IP67		-
	Operation Humidity(%RH)	0 ~ 90(No Dew)		-
	Atmosphere	No Corrosive Gas		-
	Vibration Endurance	Amplitude: 10≤F < 25Hz(2G) X, Y, Z each Direction(for 30 Minutes)		-
	Static Electricity Discharge	Connective Discharge from EN61000-4-2: ±4kV		-
	Shock Endurance	10G X, Y, Z each Direction(for 3 Times)		-
	Certification	KC	CE, KC(In Progress)	KC
Structure	External Dimension(mm)	143.5 x 54 x 36		28.8 x 18 x 8
	Weight(kg)	0.18		0.03
	Case Material	PC, Urethane		PC

图纸

MSR-B2MWA / MSR-B2MWB



- | | | | |
|---------------|--------|---------|---------------------|
| ① 电源开关 | ⑤ 向上开关 | ⑨ 扫描开关 | ⑬ 束带固定开口 |
| ② 扫描器窗口与紫外线收发 | ⑥ 发送开关 | ⑩ 删除开关 | ⑭ 后盖 |
| ③ OLED | ⑦ 充电灯 | ⑪ 蜂鸣声开口 | ⑮ USB接收器
(包括在束带) |
| ④ 电源显示灯 | ⑧ 向下开关 | ⑫ 状态灯 | |

MSR系列

MSR-B2MWA-Ex



特点

KCs(Ex ib IIC T4 Gb), 可以使用在1区环境

增安型防爆结构

UL/cUL: Class 1, Division 2 Groups A,B,C,D, T6
IECEX, ATEX, KCs: Ex ic ec IIC T6(进行中)

又坚固又方便的设计

抗冲击设计与聚氨酯材料机身
优秀手感、小巧便携设计
提供固定用束带

无线接口

蓝牙通信
IrDA紫外线通信(与本社HMI专用通信)

条码数据的安全管理

一维码与二维码识别
用LED可确认传输情况
可存储最近10次扫描的条形码数据

接口



2.4GHz 蓝牙 LE无线通信
2.4GHz Bluetooth LE, Range Up to 5M+ in Open Space

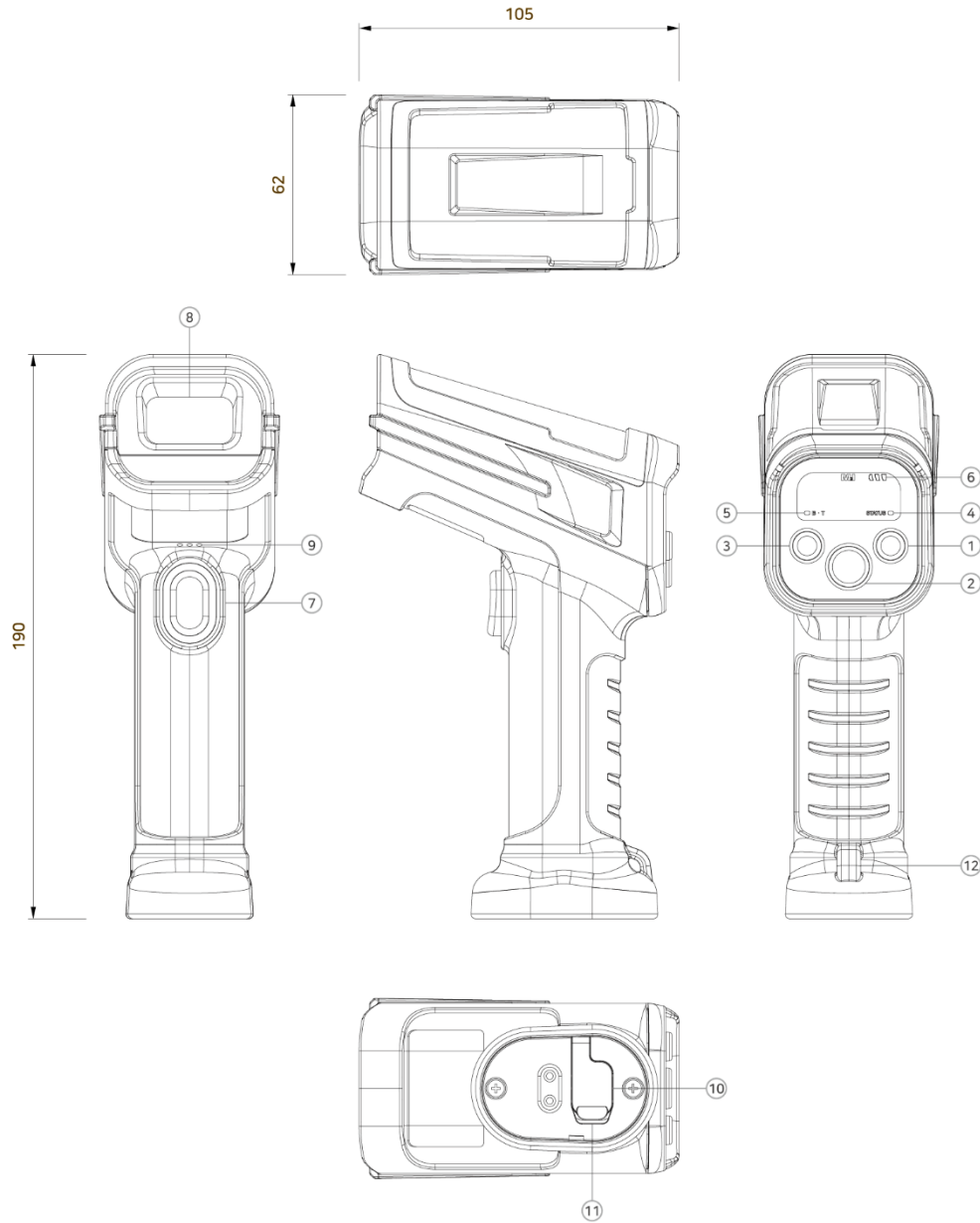


MSR-B2MWA-Ex规格

Functional		MSR-B2MWA-Ex
Display	Display Type	LED
	Indicators	Bluetooth, Status, Battery Gauge
Barcode	Type	640 x 400 1D/2D CMOS Barcode
	Symbologies	Code 39, Code 128, PDF417, UPC, Data Matrix, QR Code
Interface	USB	USB Type C, Charge Only
	IrDA	Compliant to IrDA Physical Layer Standard Up to 115.2 kbit/s(SIR), More than 0.5M in Open Space Connection with M2I HMI Equipment
	2.4GHz RF	2402MHz to 2480MHz, Bluetooth 5.2 LE, Range Up to 5M in Open Space
	Function Key	Unlock Type Push Switch 4EA(Power/Bluetooth/Send/Scan)
Battery	Rechargeable Battery	Single Li-ion 3.6Vdc, 2500mAh Operating Time: 6+ Hours(18000+,1Second interval) Charging Time: 5 Hours(Non-Operating) Standby On: 29+ Hours
Power	Consumption	3W
	Operation Temperature(℃)	-10 ~ +50
	Storage Temperature(℃)	-20 ~ +60
	Protection Classification	IP66
	Operation Humidity(%RH)	0 ~ 90(No Dew)
	Atmosphere	No Corrosive Gas
	Vibration Endurance	Amplitude: 10≤F<25Hz(2G) X, Y, Z each Direction(for 30 Minutes)
	Static Electricity Discharge	Connective Discharge from EN61000-4-2: ±4kV
	Shock Endurance	10G X, Y, Z each Direction(for 3 Times)
	Certification	KC, CE, UL/cUL in Hazloc(Completed) IECEX, ATEX, KCs(In Progress)
Structure	External Dimension(mm)	188.9 x 100.1 x 60.3
	Weight(kg)	0.416
	Case Material	PC, Urethane

图纸

MSR-B2MWA-Ex



- ① 电源开关

② 传输开关

③ 蓝牙开关

④ 状态灯
- ⑤ 蓝牙显示灯

⑥ 电池级别

⑦ 扫描开关

⑧ 扫描器窗口与紫外线收发
- ⑨ 蜂鸣声开口

⑩ 后盖

⑪ USB-C端口充电接口

⑫ 束带固定开口