

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

TOP RT / RC SERIES



TOP RT / RC SERIES

Product Catalog

M2I Corporation

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TOPRT | RC SERIES

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TOPRT40系列 高档型 HMI	04P
TOPRT WIDE系列 高档型 宽屏 HMI	08P
TOPRC WIDE系列 标准型 宽屏 HMI	12P

TOPRT40系列

防爆/非防爆 高档型 HMI

接口

- FRONT
- CAMERA
- USB OTG
- USB HOST
- ILLUMINATION SENSOR
- IrDA SENSOR
- PROXIMITY SENSOR
- REAR
- SERIAL 3 PORTS
- ETHERNET 2 CHANNEL
- 3.0 USB HOST 2 PORTS
- SD CARD
- OPTION MODULES(CAM32)



TOPRT40

特点



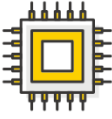
取得T6温度等级防爆认证

取得KCs、ATEX、IECEX、Hazloc防爆认证



内置前面摄像头

内置可调节角度的广角相机
可选择前面摄像头的与否
(不含摄像头的 :TOPRT□□40-Ex 01)



更强大的CPU

比TOPRT1210SD-Ex相比, 速度快2倍



铝框架

采用优秀耐久性的铝材质框架



提供近距离和照度传感器

内置按照操作距离可转换模式的近距离传感器
内置可调整画面亮度的照度传感器



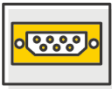
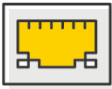
内置IrDA(红外线)传感器

可跟M2I的条形码扫描器进行无线通信
在0.5M范围内自动识别



提供3.0 USB端口

后面提供2个3.0 USB端口
前面提供2.0 USB OTG, HOST端口



串行 / 以太网界面

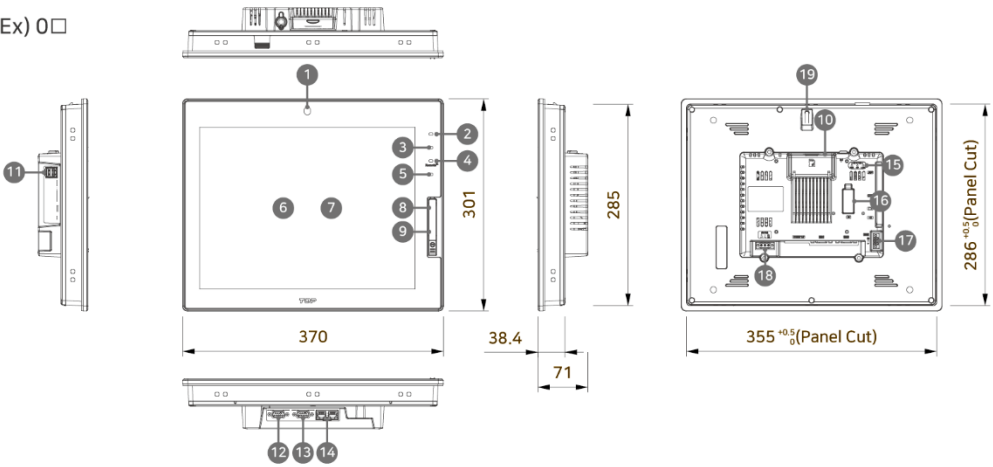
提供3个串行端口 (COM1/COM2/COM3)
支持不同IP领域的两个以太网通道

TOPRT规格

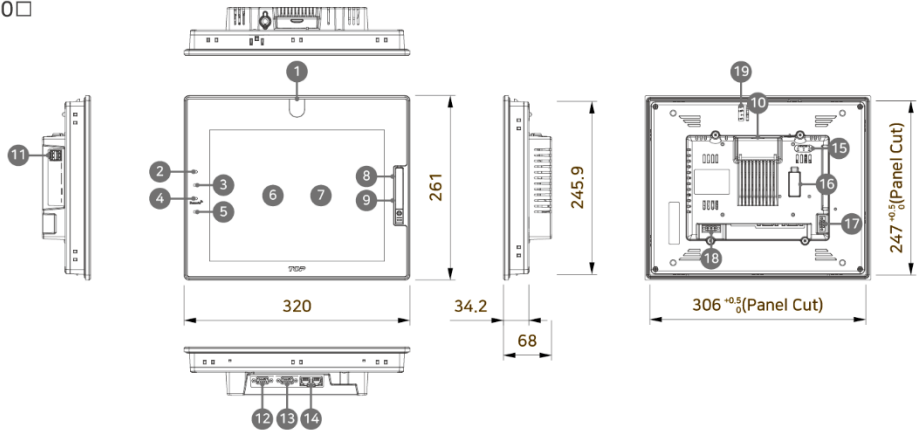
Functional		TOPRT1540XD(-Ex) 0□	TOPRT1240XD(-Ex) 0□	TOPRT1040SD(-Ex) 0□
Display	Display Type	15" TFT Color	12.1" TFT Color	10.4" TFT Color
	Color		16M Colors	
	Display Area(mm)	304.1 x 228.1	246 x 184.5	211.2 x 158.4
	Resolution(dot)	1024 x 768		800 x 600
	Brightness Level	10 Levels(by Software)		
	Backlight Type	LED		
	Backlight Life	50,000 hours		
Touch	Touch Type	Analog Resistive Film		
	Resolution(Cell)	1024 x 768		800 x 600
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		
	Serial COM3	RS-485 Asynchronous Data Bit: 7/8 Bits, Stop Bit: 1/2 Bits, Parity Bit: None/Odd/Even Baud Rate: 2400 ~ 115.2kbps Connector: 3.5mm 3Pin x 1		
	Ethernet	IEEE802.3i/IEEE802.3u/IEEE802.3ab, 10BASE-T/100BASE-TX/1000BASE-T Connector: RJ-45 x 2		
	USB Host	USB 3.0 compatible, Output 5Vdc/0.9A, USB 2.0 compatible, Output 5Vdc/0.5A Support: USB storage, USB barcode scanner(Standard keyboard protocol) Connector: USB Type A x 3(Rear(USB 3.0) x 2, Front(USB 2.0) x 1)		
	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(Front) x 1		
	IrDA	Compliant to IrDA physical layer standard up to 115.2 kbit/s (SIR), Range up to 0.7M in open space *Dedicated use of M2I HMI Equipment		
	SD Card	-	SD Card Slot x 1, SDHC(Max. 32GB)	-
	Option Modules	CAM32		
	Front Camera	USB UVC Max. Resolution: 640 x 480, 4 Adjustable Angles: Up20°, 10°, 0°, Down10°		
	Proximity Sensor	YES		
	Illumination Sensor	YES		
	Printer	Roll Printer(EPSON protocol)		
	Screen Memory	128MB		
Memory & Others	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, Link) Built in		
Power	Input Voltage	20 ~ 28Vdc		
	Power Consumption	18W		
	Voltage Sag	25W	24Vdc, Within 10ms	15W
Environment	Insulation Resistance	500Vdc, 10MΩ		
	Operation Temperature(℃)	-10 ~ +50		
	Storage Temperature(℃)	-20 ~ +60		
	Operation Humidity(%RH)	0 ~ 90(No Dew)		
	Atmosphere	No Corrosive Gas		
	Vibration Endurance	Amplitude: 10sF< 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	IP54(Front)		
	Certification(On Progress)	General Model: CE, KC, UL/cUL Explosion Proof Model: CE, KC, KCs, CCC, IECEx/ATEX, UL/cUL in Hazloc		
Structure	Panel Cut(mm)	355 x 286	306 x 247	260 x 202
	External Dimension(mm)	370 x 301 x 71	320 x 261 x 68	275 x 217 x 68
	Weight(kg)	5.2	3.6	2.7
	Cooling System	Natural Air Circulation		
	Case Material	Aluminum		

接口

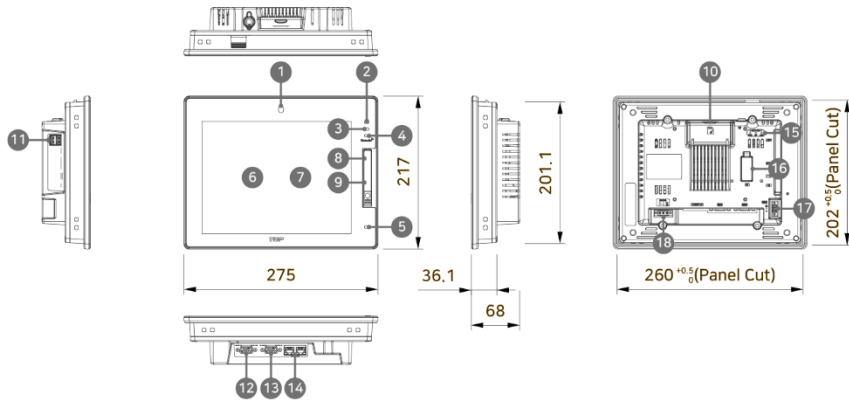
TOPRT1540XD(-Ex) 0□



TOPRT1240XD(-Ex) 0□



TOPRT1040SD(-Ex) 0□



- 1 摄像头

2 电源LED

3 照度传感器

4 IrDA传感器

5 近距离传感器
- 6 LCD面板

7 触摸面板

8 USB OTG

9 USB Host

10 SD卡插槽
- 11 USB Host 2P

12 串行COM2

13 串行COM1

14 以太网 2通道

15 状态LED
- 16 扩展模块连接器

17 串行COM3

18 电源输入

19 摄像头角度调整杠杆

TOPRT WIDE系列

防爆/非防爆 高档型 宽屏 HMI

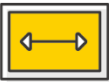
接口

- FRONT
- USB OTG ■ USB HOST ■ CAMERA ■ PROXIMITY SENSOR ■ IrDA SENSOR
- REAR
- SERIAL 3 PORTS ■ ETHERNET 2 CHANNEL ■ 3.0 USB HOST 2 PORTS ■ WiFi ■ Bluetooth
- HDMI ■ AUDIO ■ SD CARD ■ OPTION MODULES(CAM32)



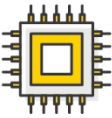
TOPRT WIDE

特点



更鲜明的宽屏幕

16:9比率的高分辨率宽屏幕
采用又鲜明又坚固的电容式触摸
采用IK7冲击等级的强化玻璃



更强大的CPU

比TOPRT1210SD-Ex相比, 速度快2倍



内置前面摄像头

内置可调节角度的广角相机



更强的无线功能

提供WiFi 2.4G/5G
可跟M2I的条形码扫描器进行蓝牙/IrDA无线通信
* 选项型号 [TOPRT□□50WD(-Ex) 01]
不支持无线功能 (Wi-Fi、Bluetooth、IrDA)。



T6温度等级的防爆认证

取得ATEX、IECEx和Hazloc防爆认证中



坚固的框架

采用优秀耐久性的前面部铝材质框架
减少边框大小的优雅设计



提供3.0 USB端口

后面提供2个3.0 USB端口
前面提供2.0 USB OTG, HOST端口



串行 / 以太网界面

提供3个串行端口 (COM1/COM2/COM3)
支持不同IP领域的两个以太网通道

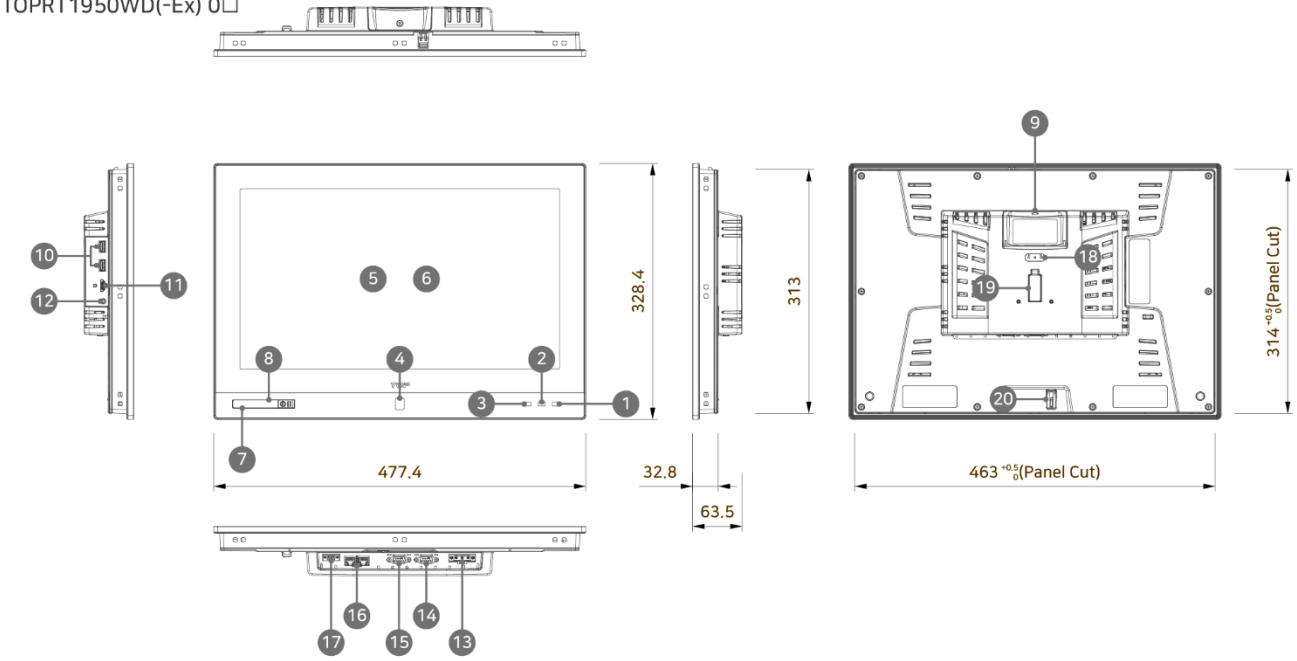
TOPRT规格

Functional		TOPRT1950WD(-Ex) 0□	TOPRT1550WD(-Ex) 0□
Display	Display Type	18.5" TFT Color	15.6" TFT Color
	Color	16M Colors	
	Display Area(mm)	409.8 x 230.4	344.2 x 193.5
	Resolution(dot)	1366 x 768	
	Brightness Level	10 Levels(by software)	
	Backlight Type	LED	
	Backlight Life	50,000 hours	
Touch	Touch Type	Capacitive	
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 Internal termination resistors(Software set-up) 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 Internal termination resistors(Software set-up) Connector: DSUB 9pin x 1	
	Serial COM3	RS-485 Asynchronous Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400 ~ 115.2kbps Internal termination resistors(Software set-up) Connector: 3.5mm 3pin x 1	
	Ethernet	IEEE 802.3i, IEEE 802.3u, IEEE 802.ab, 10BaseT/100BaseT/1000BaseT Connector: RJ-45 x 2	
	USB Host	USB 3.0 compatible, Output 5Vdc/0.9A, USB 2.0 compatible, Output 5Vdc/0.5A Support: USB storage, USB barcode scanner(Standard keyboard protocol) Connector: USB Type A x 3(Rear(USB 3.0) x 2, Front(USB 2.0) x 1)	
	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(front) x 1	
	Wifi	2.4G: 2.400GHz ~ 2.483GHz 5G: 5.150GHz ~ 5.725GHz WLAN standard: IEEE 802.11a/b/g/n Operation range up to 20 meters in open space Security: WEP(64/128), WPA-PSK+(TKIP, AES), WPA2-PSK+(TKIP, AES)	
Memory & Others	Bluetooth	2402MHz ~ 2480MHz, Bluetooth® 5.0(BLE), Range up to 5M in open space	
	IrDA	Compliant to IrDA physical layer standard up to 115.2 kbit/s(SIR), Range up to 0.7M in open space *Dedicated use of M2I HMI equipment.	
	SD Card	SD card slot x 1, SDHC(Max. 32GB), SDXC(Max. 1TB)	
	Option Modules	CAM32	
	Audio	3.5mm Audio jack output	
	HDMI	HDMI v2.0, Max. 1366 x 768	
	Front Camera	USB UVC Max. resolution: 640 x 480 5 Adjustable angles: Up 20°, 10°, 0°, Down 10°, 20°	
Power	Proximity Sensor	YES	
	Printer	Roll printer(EPSON protocol)	
	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, Link) built in	
Environment	Input Voltage	24Vdc(20 ~ 28Vdc)	
	Power Consumption	40W	
	Voltage Sag	24Vdc, Within 10ms	
	Insulation Resistance	500Vdc, 10MΩ	
	Operation Temperature(°C)	-10 ~ +50	
	Storage Temperature(°C)	-20 ~ +60	
	Operation Humidity(%RH)	0 ~ 90(No dew)	
Structure	Atmosphere	No corrosive gas	
	Vibration Endurance	Amplitude: 10sF<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	IP54(front)	
	Certification(On Progress)	General Model: CE, KC, UL/cUL Explosion Proof Model: CE, KC, KCs, CCC, IECEx/ATEX, UL/cUL in Hazloc	
	Panel Cut(mm)	463 x 314	392 x 272
	External Dimension(mm)	477.4 x 328.4 x 63.5	406.4 x 286.4 x 63.5
	Weight(kg)	5.30	4.10
	Cooling System	Natural air circulation	
	Case Material	Aluminum + Plastic	

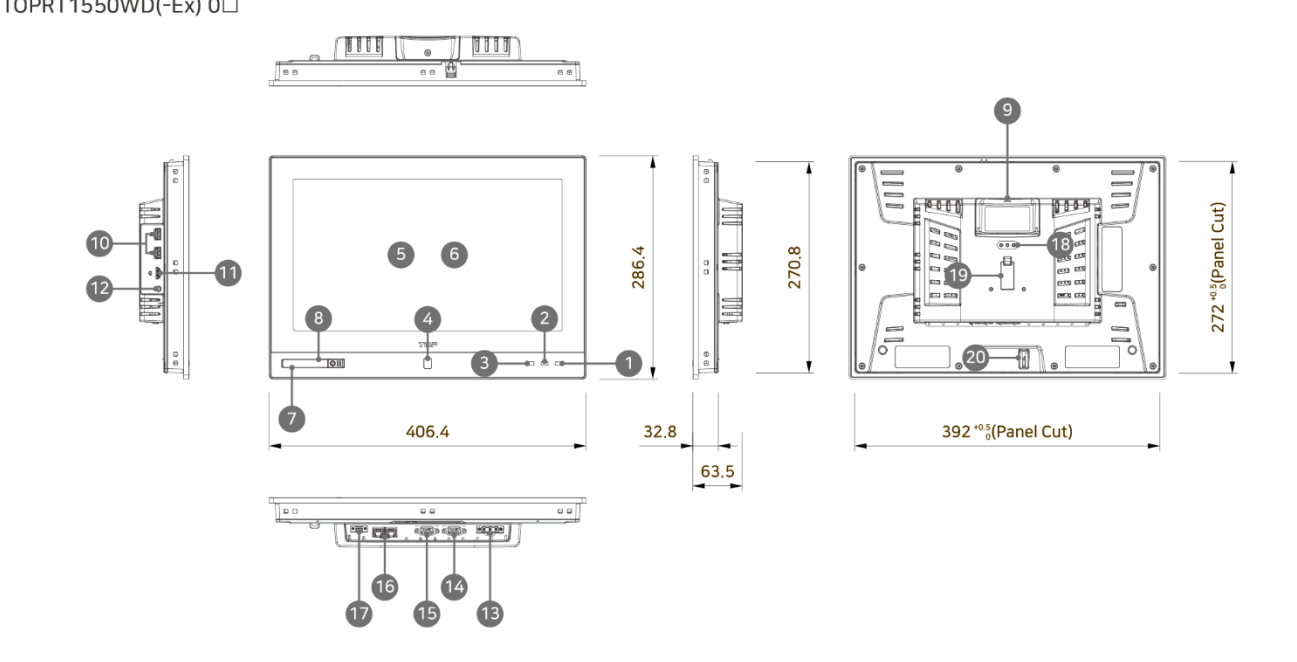
* 选项型号 [TOPRT□□50WD(-Ex) 01] 不支持无线功能(Wi-Fi, Bluetooth, IrDA)。
* [-Ex] 型号是获得防爆认证的产品。

接口

TOPRT1950WD(-Ex) 0□



TOPRT1550WD(-Ex) 0□



- | | | | | |
|-----------|------------|----------------|------------|--------------|
| 1 电源LED | 5 LCD面板 | 9 SD卡插槽 | 13 电源输入 | 17 串行COM3 |
| 2 IrDA传感器 | 6 触摸面板 | 10 USB Host 2P | 14 串行COM1 | 18 状态LED |
| 3 近距离传感器 | 7 USB OTG | 11 HDMI | 15 串行COM2 | 19 扩展模块连接器 |
| 4 摄像头 | 8 USB Host | 12 声音 | 16 以太网 2通道 | 20 摄像头角度调整杠杆 |

TOPRC WIDE系列

防爆/非防爆 标准型 宽屏 HMI

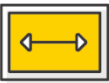
接口

- FRONT
- USB OTG ■ USB HOST ■ IrDA SENSOR
- REAR
- SERIAL 3 PORTS ■ ETHERNET 2 CHANNEL ■ USB HOST 2 PORTS ■ WiFi ■ Bluetooth ■ SD CARD



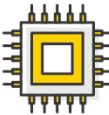
TOPRC WIDE

特点



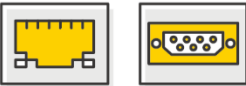
更鲜明的宽屏幕

16:9比率的高分辨率宽屏幕
采用又鲜明又坚固的电容式触摸
采用IK7冲击等级的强化玻璃



更强大的CPU

比TOPRT1210SD-Ex相比, 速度快2倍



串行 / 以太网界面

提供3个串行端口 (COM1/COM2/COM3)
支持不同IP领域的两个以太网通道



更强的无线功能

提供WiFi 2.4G/5G
可跟M2I的条形码扫描器进行蓝牙/IrDA无线通信
* 选项型号 [TOPRC□□00WD(-Ex) 01]
不支持无线功能 (Wi-Fi、Bluetooth、IrDA)。



坚固的框架

采用优秀耐久性的后面铝材质框架
减少边框大小的优雅设计



提供前面2个USB端口

提供前面 USB OTG, HOST端口
提供后面两个USB HOST端口

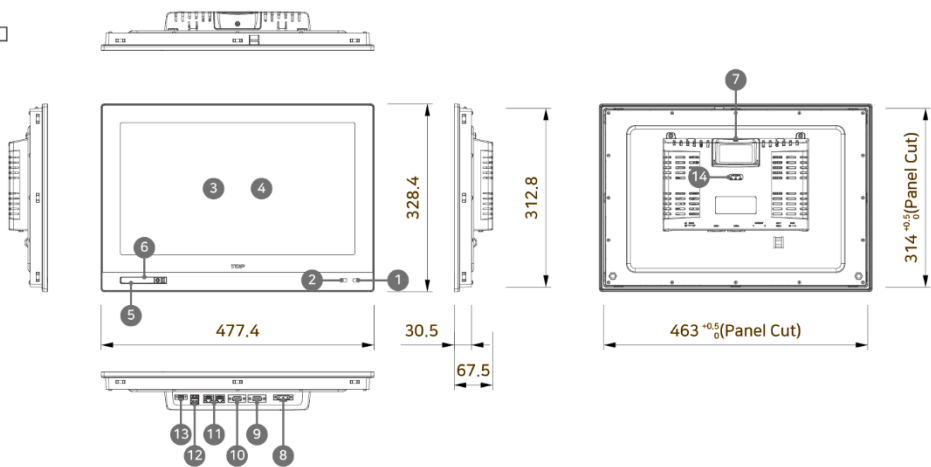
TOPRC规格

Functional		TOPRC1900WD(-Ex) 0□	TOPRC1500WD(-Ex) 0□	TOPRC1200WD(-Ex) 0□
Display	Display Type	18.5" TFT Color	15.6" TFT Color	12.1" TFT Color
	Color		16M Colors	
	Display Area(mm)	409.8 x 230.4	344.2 x 193.5	261.12 x 163.2
	Resolution(dot)	1366 x 768		1280 x 800
	Brightness Level		10 Levels(by software)	
	Backlight Type		LED	
	Backlight Life		50,000 hour	
Touch	Touch Type		Capacitive Touch	
	Resolution(Cell)	1366 x 768		1280 x 800
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 Internal termination resistors(Software set-up) 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 Internal termination resistors(Software set-up) Connector: DSUB 9pin x 1		
	Serial COM3	RS-485 Asynchronous Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kbps Internal termination resistors(Software set-up) Connector: 3.5mm 3pin x 1		
	Ethernet	IEEE802.3i/IEEE802.3u, 10BaseT / 100BaseT 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 3(Rear x 2, Front x 1)		
	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(Front) x 1		
	WiFi	2.4G: 2.4000GHz ~ 2.4835GHz 5G: 5.150GHz ~ 5.725GHz WLAN Standard: IEEE 802.11a/b/g/n Operation Range Up to 20meters in open space Security: WEP(64/128), WPA-PSK+(TKIP, AES), WPA2-PSK+(TKIP, AES)		
	Bluetooth	2402MHz ~ 2480MHz, Bluetooth® 5.0(BLE), Range up to 5M in open space		
	IrDA	Compliant to IrDA physical layer standard up to 115.2 kbit/s (SIR), Range up to 0.7M in open space *Dedicated use of M2I HMI equipment.		
	SD Card	SD Card Slot x 1, SDHC(Max. 32GB), SDXC(Max. 1TB)		
	Printer	Roll Printer(EPSON protocol)		
	Screen memory	128MB		
	Backup memory	512KB: System buffer(10K Word), Including Alarm/Logging/Recipe		
	Backup Period	Permanent		
	Real Time Clock	Built in		
Power	Status LED	3 LEDs(Power, Operation, Link) Built in		
	Input Voltage	24Vdc(20~28Vdc)		
	Power Consumption	40W		
Environment	Voltage Sag	24Vdc, Within 10ms		
	Insulation Resistance	500Vdc, 10MΩ		
	Operation Temperature(℃)	-10 ~ +50		
	Storage Temperature(℃)	-20 ~ +60		
	Operation Humidity(%RH)	0 ~ 90(No dew)		
	Atmosphere	No corrosive gas		
	Vibration Endurance	Amplitude: 10sF < 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)		
Structure	Ground Connection	Class 3(100Ω or less)		
	Protection Classification	IP65(Front)		
	Certification(On Progress)	General Model: CE, KC, UL/cUL Explosion Proof Model: CE, KC, KCs, CCC, IECEx/ATEX, UL/cUL in Hazloc		
	Panel Cut(mm)	463 x 314	392 x 272	310 x 240
	External Dimension(mm)	477.4 x 328.4 x 67.5	406.4 x 286.4 x 67.5	324.4 x 253.9 x 67.5
	Weight(kg)	4.2	3.12	2.3
	Cooling System	Natural air circulation		
	Case Material	Aluminium + Plastic		

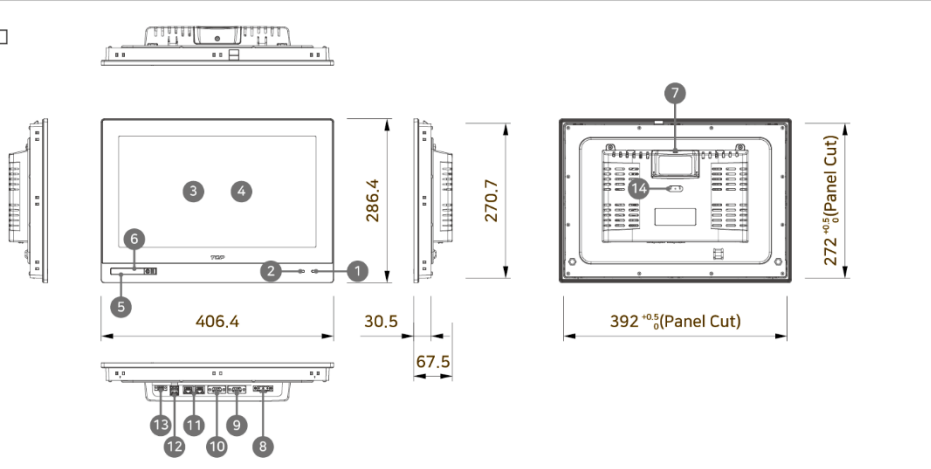
* 选项型号 [TOPRC□□00WD(-Ex) 01] 不支持无线功能(Wi-Fi, Bluetooth, IrDA)。
* [-Ex] 型号是获得防爆认证的产品。

接口

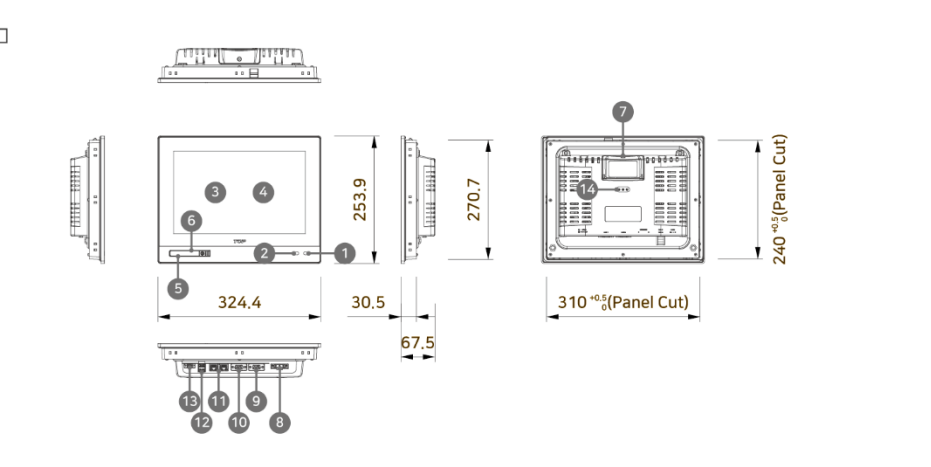
TOPRC1900WD(-Ex) 0□



TOPRC1500WD(-Ex) 0□



TOPRC1200WD(-Ex) 0□



- | | | | |
|-----------|------------|----------------|-----------|
| 1 电源LED | 5 USB OTG | 9 串行COM1 | 13 串行COM3 |
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