

注意

製品の作動前に必ずマニュアルを熟知してください。
実際製品の色相とカタログ上の製品の色相は多少違う事もあります。
本カタログの内容は事前予告無しに変更される場合があります。

M2I Corporation
Man · Machine · Interface

TOP RT / RC SERIES



TOP RT / RC SERIES

Product Catalog

M2I Corporation

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TOPRT | RC SERIES

CONTENTS

TOPRT40 SERIES プレミアム HMI	04P
TOPRT WIDE SERIES プレミアム WIDE HMI	08P
TOPRC WIDE SERIES スタンダード WIDE HMI	12P

TOPRT40 SERIES

防爆・非防爆プレミアムHMI

INTERFACE

- 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

特長点



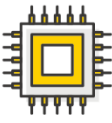
T6温度等級防爆認証

KCs、ATEX、IECEX、Hazloc 防爆認獲得



前面カメラ内装

角度調節広角カメラ内装
前面カメラ有・無選択可能
(含まないモデル: TOPRT□□40-Ex 01)



さらに強力なCPU

TOPRT1210SD-Exモデル対比2倍速い速度支援



アルミニウムフレーム

頑丈な耐久性と洗練されたデザインを持った
アルミニウムフレーム



近接センサー / 自動明度調節センサー提供

作業距離によってモード転換が可能な近接センサー内装
画面の明るさを調節する自動明度調節センサー内装



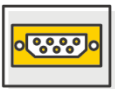
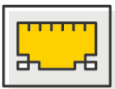
IrDA(赤外線)センサー内装

自社バーコードリーダーと無線通信
0.5M内自動認識



3.0 USBポート提供

後面 3.0 USB HOST 2ポート提供
前面 2.0 USB OTG、HOSTポート提供



シリアル・イーサネットインタフェース

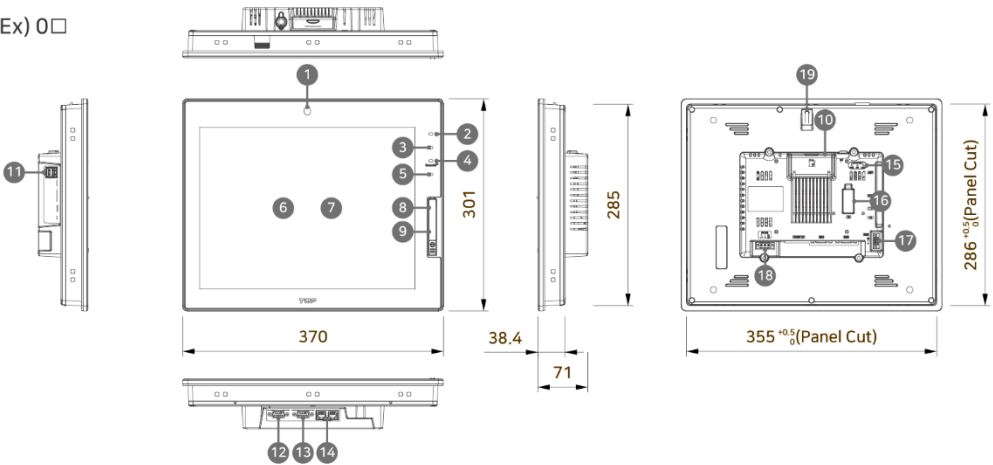
COM1・COM2・COM3シリアル3ポート提供
お互い違うIPをもつ異機種ネットワーク支援

TOPRT40 SPECIFICATIONS

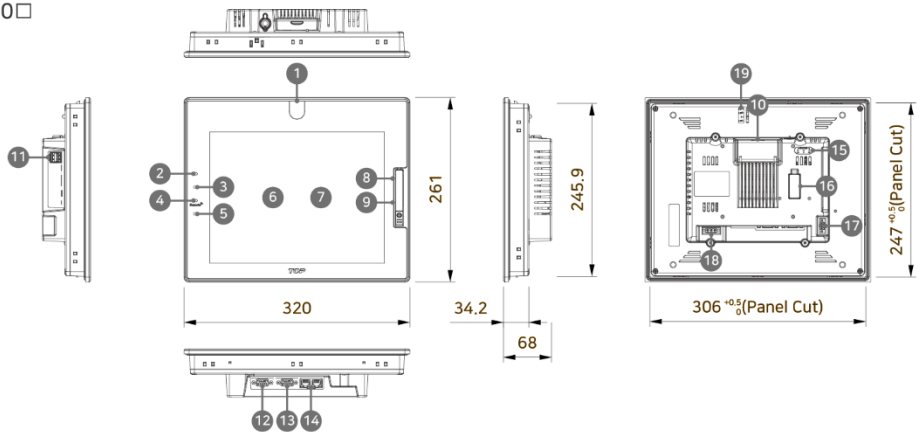
Functional		TOPRT1540XD(-Ex) 0□	TOPRT1240XD(-Ex) 0□	TOPRT1040SD(-Ex) 0□
Display	Display Type	15" TFT Color	12.1" TFT Color	10.4" TFT Color
	Color		16M Colors	
	Display Area(mm)	304.1 x 228.1	246 x 184.5	211.2 x 158.4
	Resolution(dot)	1024 x 768		800 x 600
	Brightness Level	10 Levels(by Software)		
	Backlight Type	LED		
	Backlight Life	50,000 hours		
Touch	Touch Type	Analog Resistive Film		
	Resolution(Cell)	1024 x 768		800 x 600
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		
Interface	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
Insulation Resistance		500Vdc, 10MΩ		
Environment	Operation Temperature(°C)	-10 ~ +50		
	Storage Temperature(°C)	-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		

DRAWING

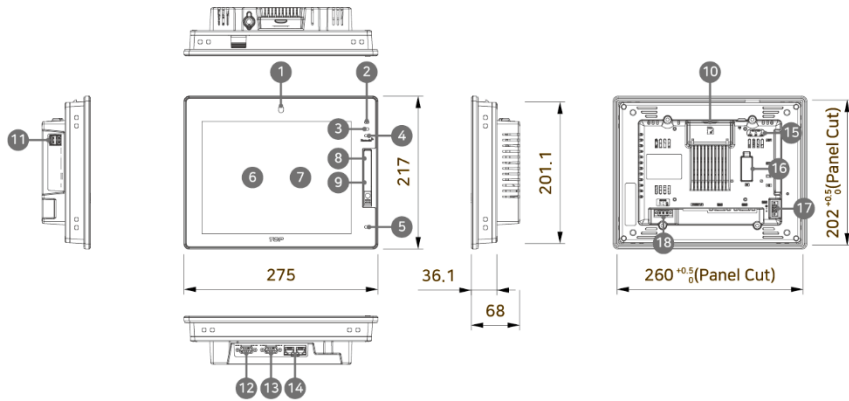
TOPRT1540XD(-Ex) 0□



TOPRT1240XD(-Ex) 0□



TOPRT1040SD(-Ex) 0□



- 1

Camera
- 2

Power LED
- 3

Illumination Sensor
- 4

IrDA Sensor
- 5

Proximity Sensor

6

LCD Panel

7

Touch Panel

8

USB OTG

9

USB Host

10

SD Card Slot

11

USB Host 2P

12

Serial COM2

13

Serial COM1

14

Ethernet 2Ch

15

Status LED

16

Expansion Module Connector

17

Serial COM3

18

Power Input

19

Camera Angle Adjustment Lever

TOPRT WIDE SERIES

防爆・非防爆プレミアム WIDE HMI

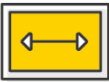
INTERFACE

- 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)



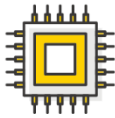
TOPRT WIDE

特長点



鮮明なワイド画面

16:9 WIDE 1366 x 768 高解像度画面
鮮明で頑丈な静電容量タッチセンサー適用
衝撃耐久性 IK07等級強化ガラス適用



さらに強力なCPU

TOPRT1210SD-Exモデル対比2倍速い速度支援



前面カメラ内装

角度調節広角カメラ内装



無線強化

WiFi 2.4G/5G提供
自社バーコードリーダーとBluetooth・IrDA無線通信
* オプションモデル [TOPRT□□50WD(-Ex) 01]
は無線機能 (Wi-Fi、Bluetooth、IrDA)
をサポートしていません。



T6温度等級防爆認証

ATEX、IECEx、Hazloc防爆認証進行中



頑丈なフレーム

強力な耐久性をもつ前面アルミニウムフレーム
ベゼルを最小化した洗練されたデザイン



3.0 USBポート提供

後面 3.0 USB HOST 2ポート提供
前面 2.0 USB OTG、HOSTポート提供



シリアル・イーサネットインタフェース

COM1・COM2・COM3シリアル3ポート提供
お互い違うIPをもつ異機種ネットワーク支援

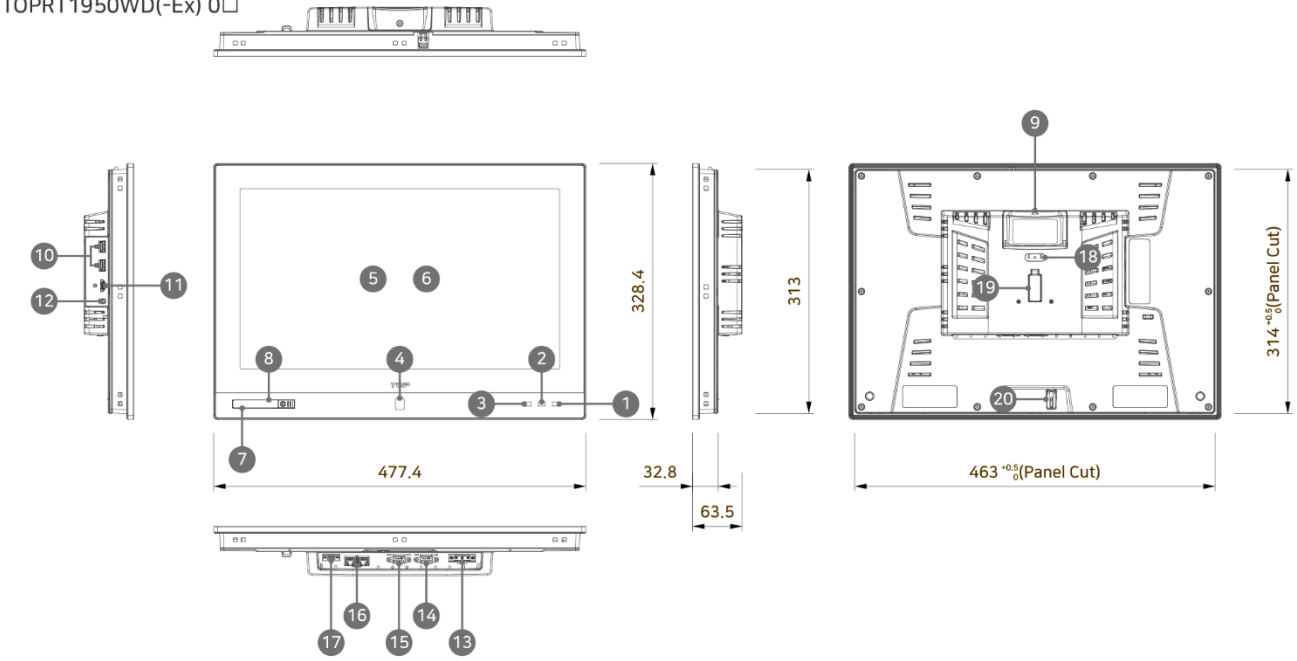
TOPRT WIDE SPECIFICATIONS

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	
Touch	Backlight Life	50,000 hours	
	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)	
	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)	
Memory & Others	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°	
	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	
Power	Status LED	3 LEDs(Power, Operation, Link) built in	
	Input Voltage	24Vdc(20 ~ 28Vdc)	
	Power Consumption	40W	
	Voltage Sag	24Vdc, Within 10ms	
Environment	Insulation Resistance	500Vdc, 10MΩ	
	Operation Temperature(°C)	-10 ~ +50	
	Storage Temperature(°C)	-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)	
Structure	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	

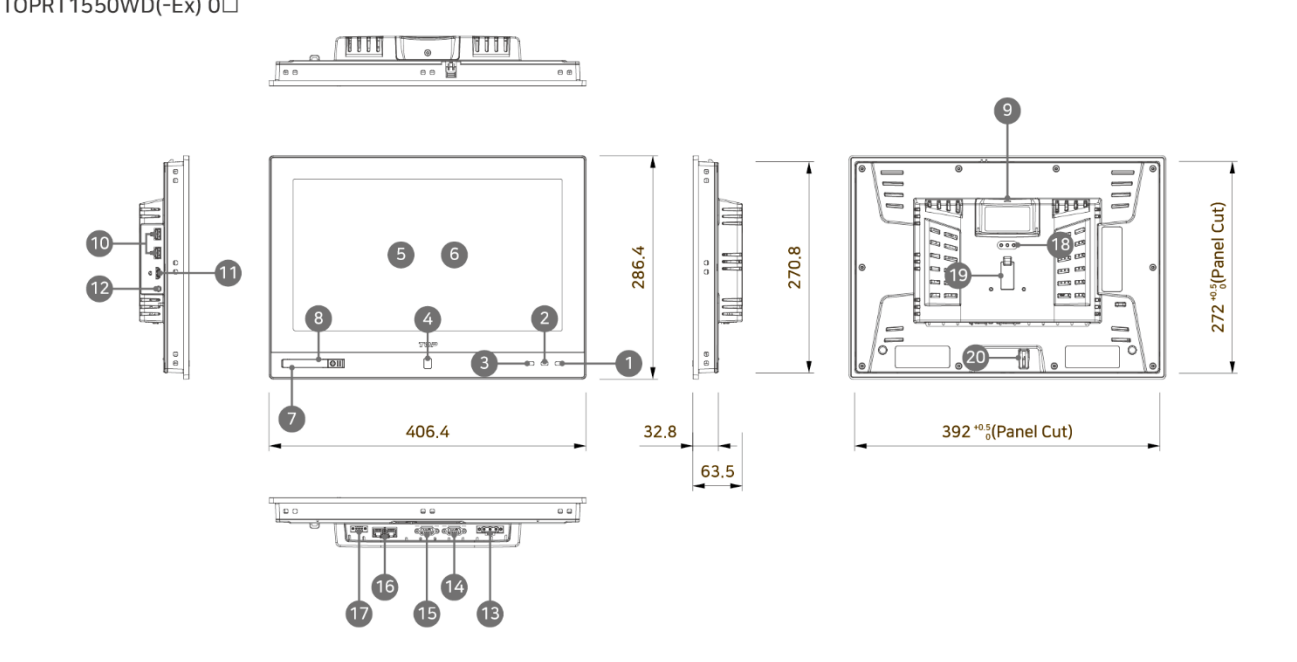
* オプションモデル [TOPRT□□50WD(-Ex) 01] は無線機能 (Wi-Fi, Bluetooth, IrDA) をサポートしていません。
* [-Ex] モデルは防爆認証を取得した製品です。

DRAWING

TOPRT1950WD(-Ex) 0□



TOPRT1550WD(-Ex) 0□



- | | | | | |
|--------------------|---------------|----------------|-----------------|----------------------------------|
| 1 Power LED | 5 LCD Panel | 9 SD Card Slot | 13 Power Input | 17 Serial COM3 |
| 2 IrDA Sensor | 6 Touch Panel | 10 USB Host 2P | 14 Serial COM1 | 18 Status LED |
| 3 Proximity Sensor | 7 USB OTG | 11 HDMI | 15 Serial COM2 | 19 Expansion Module Connector |
| 4 Camera | 8 USB Host | 12 AUDIO | 16 Ethernet 2ch | 20 Camera Angle Adjustment Lever |

TOPRC SERIES

防爆・非防爆スタンダード WIDE HMI

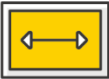
INTERFACE

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



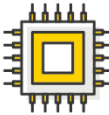
TOPRC WIDE

特長点



鮮明なワイド画面

16:9 WIDE 1366 x 768 高解像度画面
鮮明で頑丈な静電容量タッチセンサー適用
衝撃耐久性 IK07等級強化ガラス適用



さらに強力なCPU

TOPRT1210SD-Exモデル対比2倍速い速度支援



シリアル・イーサネットインタフェース

COM1・COM2・COM3シリアル3ポート提供
お互い違うIPをもつ異機種ネットワーク支援



無線強化

WiFi 2.4G/5G提供
自社バーコードリーダーとブルートゥース・IrDA無線通信
* オプションモデル [TOPRC□□00WD(-Ex) 01]
は無線機能 (Wi-Fi、Bluetooth、IrDA)
をサポートしていません。



頑丈なフレーム

頑丈な耐久性を持つ後面アルミニウムフレーム
ベゼルを最小化した洗練されたデザイン



前面USB2ポート提供

前面USB OTG、HOSTポート提供
後面USB HOST2ポート提供

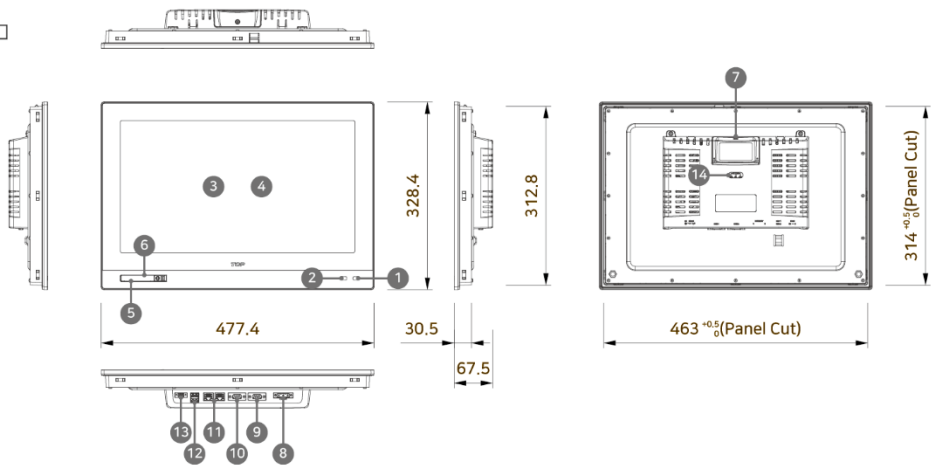
TOPRC WIDE SPECIFICATIONS

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		

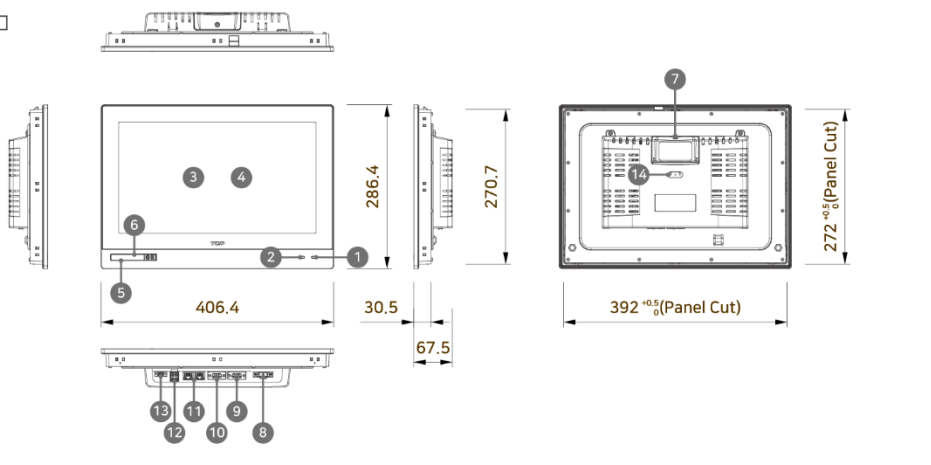
* オプションモデル [TOPRC□□00WD(-Ex) 01] は無線機能 (Wi-Fi, Bluetooth, IrDA) をサポートしていません。
* [-Ex] モデルは防爆認証を取得した製品です。

DRAWING

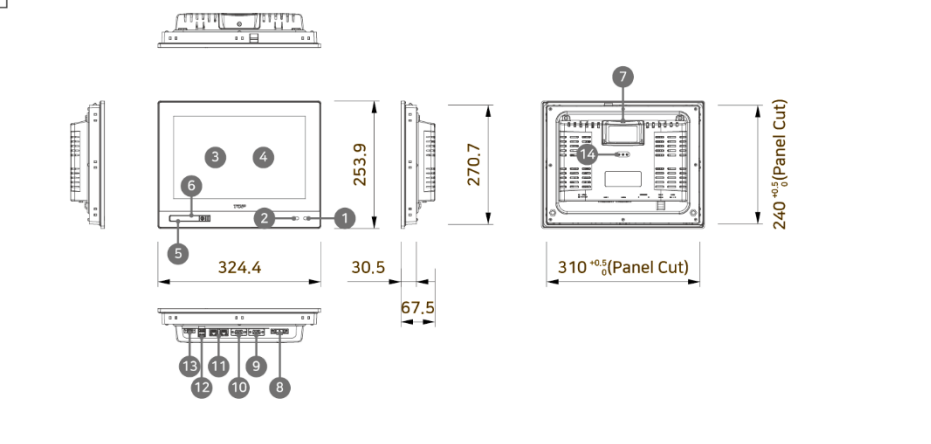
TOPRC1900WD(-Ex) 0□



TOPRC1500WD(-Ex) 0□



TOPRC1200WD(-Ex) 0□



- | | | | |
|---------------|----------------|-----------------|----------------|
| 1 Power LED | 5 USB OTG | 9 Serial COM1 | 13 Serial COM3 |
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