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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 PREMIUM HMI	04P
TOPRT WIDE SERIES PREMIUM WIDE HMI	08P
TOPRC WIDE SERIES PREMIUM WIDE HMI	12P

TOPRT40 SERIES

Anti-Explosive / Normal Premium 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

FEATURES



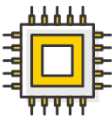
T6 Anti-Explosive Certificates

KCs, ATEX, IECEx, Hazloc Certificates



Front Camera Integrated

Angle-Adjustable Wide-Angle Camera
Front Camera Option
(Non-integrated Model : TOPRT□□40-Ex 01)



More Powerful CPU

2 Times Faster than TOPRT1210SD-Ex



Aluminum Frame

Heavy Duty Aluminum Frame



Proximity Sensor / Illuminance Sensor

Mode Change by a Distance of Operation
Automatic Adjustment of Brightness



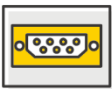
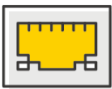
IrDA Integrated

Wireless Communication with
M2I's Barcode Scanner Automatic Recognition
within 0.5M



3.0 USB Port

Rear 2 Ports as USB 3.0 Host
Front 1 Port as USB 2.0 OTG/HOST



Serial / Ethernet Interface

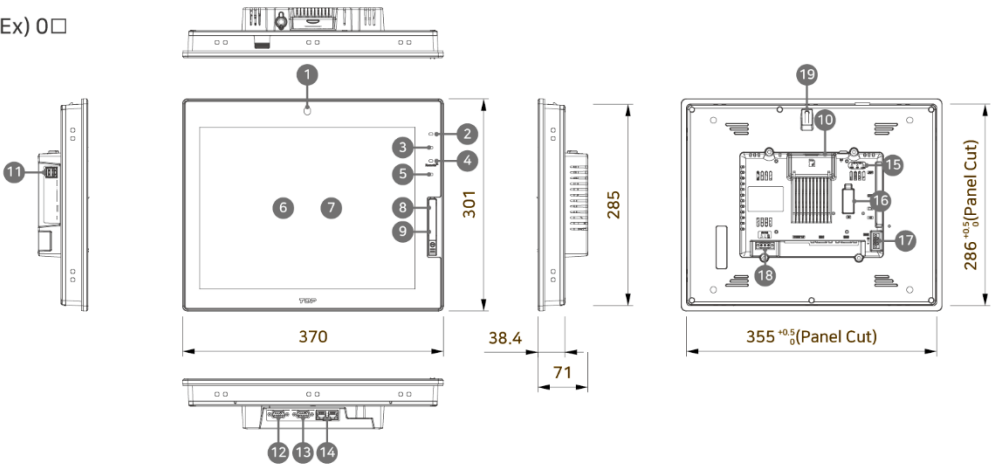
Serial 3 Ports as COM1/COM2/COM3
Ethernet 2 Channels with Independent IP

TOPRT40 SPECIFICATIONS

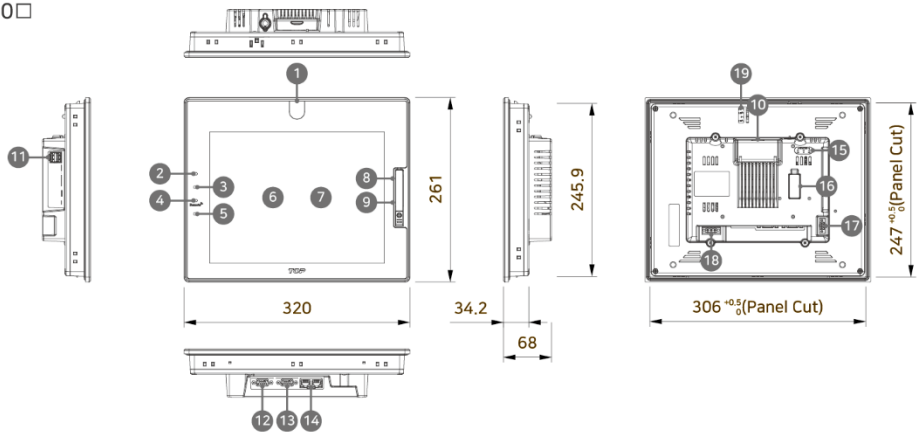
Functional		TOPRT1540XD(-Ex) 0□	TOPRT1240XD(-Ex) 0□	TOPRT1040SD(-Ex) 0□
Display	Display Type	15" TFT Color	12.1" TFT Color	10.4" TFT Color
	Color		16M Colors	
	Display Area(mm)	304.1 x 228.1	246 x 184.5	211.2 x 158.4
	Resolution(dot)	1024 x 768		800 x 600
	Brightness Level	10 Levels(by Software)		
	Backlight 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°		USB UVC Max. Resolution: 640 x 480
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

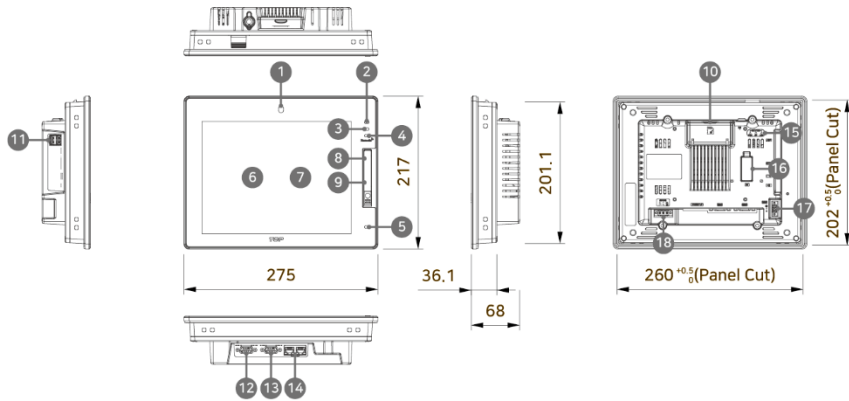
TOPRT1540XD(-Ex) 0□



TOPRT1240XD(-Ex) 0□



TOPRT1040SD(-Ex) 0□



- 1

Camera
- 6

LCD Panel
- 11

USB Host 2P
- 16

Expansion Module Connector

2

Power LED

7

Touch Panel

12

Serial COM2

17

Serial COM3

3

Illumination Sensor

8

USB OTG

13

Serial COM1

18

Power Input

4

IrDA Sensor

9

USB Host

14

Ethernet 2Ch

19

Camera Angle Adjustment Lever

5

Proximity Sensor

10

SD Card Slot

15

Status LED

TOPRT WIDE SERIES

Anti-Explosive / Normal Premium Wide HMI

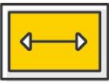
INTERFACE

- 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)



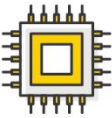
TOPRT WIDE

FEATURES



Clear Wide Screen

16:9 Wide 1366 x 768 Resolution
Clear and Strong Capacitive Touch
IK07 Tempered Glass



More Powerful CPU

2 Times Faster than TOPRT1210SD-Ex



Front Camera Integrated

Angle-Adjustable Wide-Angle Camera



Enhanced Wireless Connection

WiFi 2.4G/5G
Bluetooth/IrDA Communication with
M2I's Barcode Scanner
* The option model [TOPRT□□50WD(-Ex) 01]
does not support wireless features
(Wi-Fi, Bluetooth, IrDA).



T6 Anti-Explosive Certificates

ATEX, IECEx, Hazloc On Progress



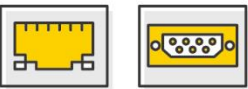
Solid Frame

Heavy Duty Front Aluminum Frame
Refined Design with Minimized Bezel



3.0 USB Port

Rear 2 Ports as USB 3.0 Host
Front 1 Port as USB 2.0 OTG/HOST



Serial / Ethernet Interface

Serial 3 Ports as COM1/COM2/COM3
Ethernet 2 Channels with Independent IP

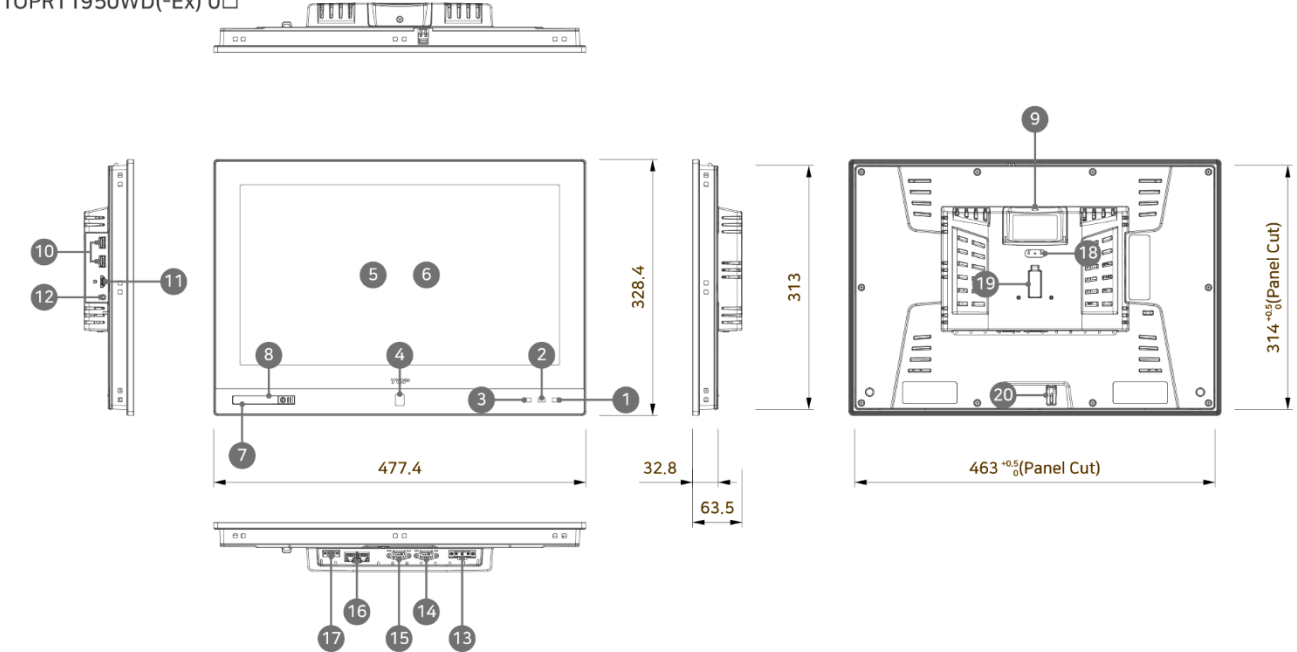
TOPRT WIDE SPECIFICATIONS

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	

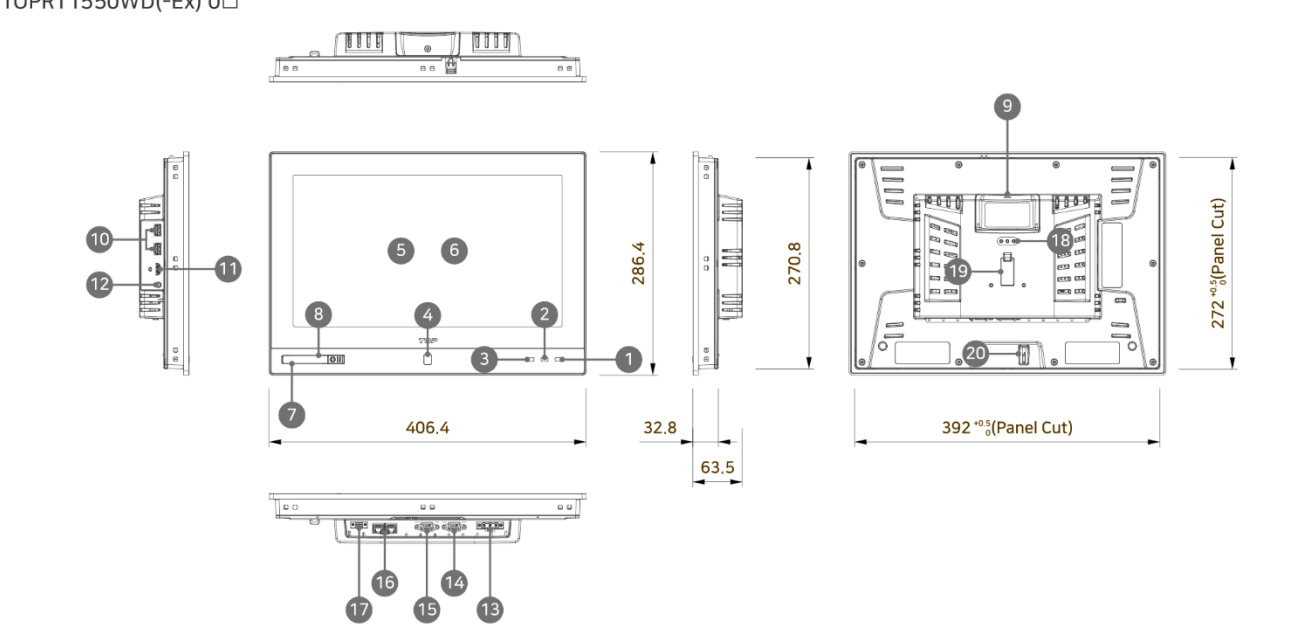
* The option model [TOPRT□□50WD(-Ex) 01] does not support wireless features (Wi-Fi, Bluetooth, IrDA).
* The [-Ex] model is a product that has obtained explosion-proof certification.

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

Anti-Explosive / Normal Standard 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

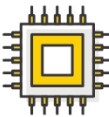


FEATURES



Clear Wide Screen

16:9 Wide 1366 x 768 Resolution
Clear and Strong Capacitive Touch
IK07 Tempered Glass



More Powerful CPU

2 Times Faster than TOPRT1210SD-Ex



Serial / Ethernet Interface

Serial 3 Ports as COM1/COM2/COM3
Ethernet 2 Channels with Independent IP



Enhanced Wireless Connection

WiFi 2.4G/5G
Bluetooth/IrDA Communication with
M2I's Barcode Scanner
* The option model [TOPRC□□00WD(-Ex) 01]
does not support wireless features
(Wi-Fi, Bluetooth, IrDA).



Solid Frame

Heavy Duty Front Aluminum Frame
Refined Design with Minimized Bezel



Front USB 2 Ports

Front USB OTG, HOST Port
Rear USB 2 Ports

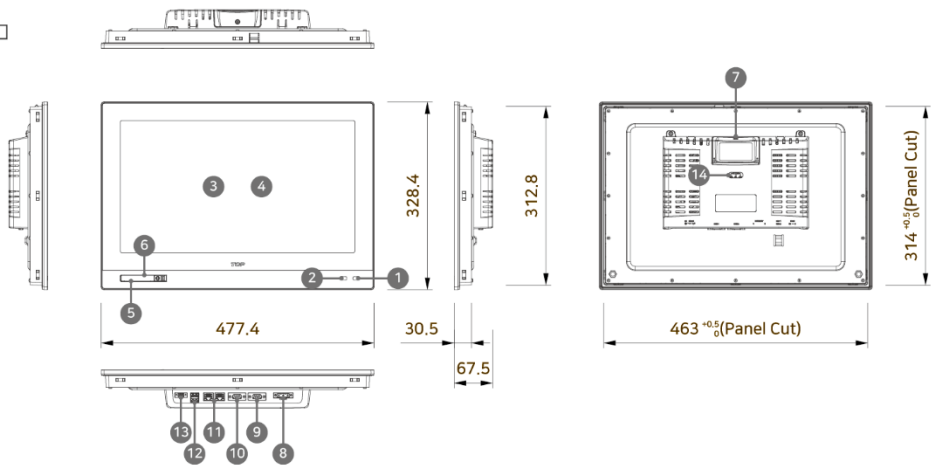
TOPRC WIDE SPECIFICATIONS

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		
Memory & Others	Real Time Clock	Built in		
	Status LED	3 LEDs(Power, Operation, Link) Built in		
	Input Voltage	24Vdc(20~28Vdc)		
Power	Power Consumption	40W		
	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: 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	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		

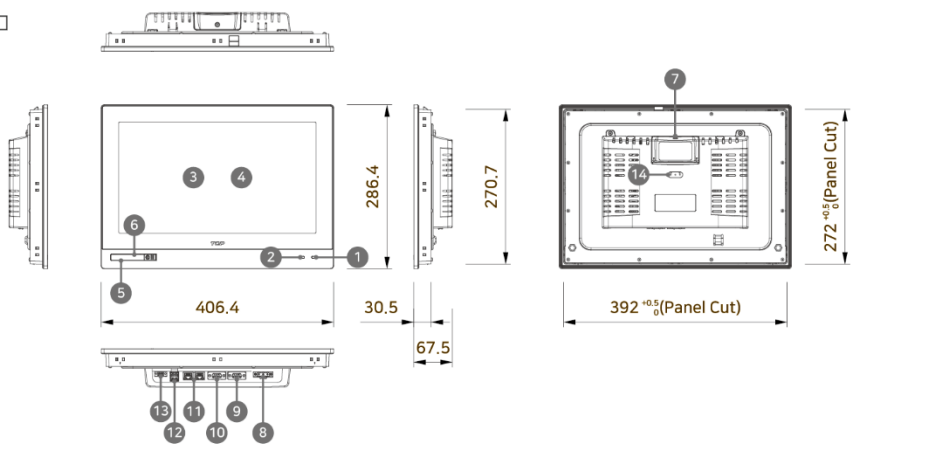
* The option model [TOPRC□□00WD(-Ex) 01] does not support wireless features (Wi-Fi, Bluetooth, IrDA).
* The [-Ex] model is a product that has obtained explosion-proof certification.

DRAWING

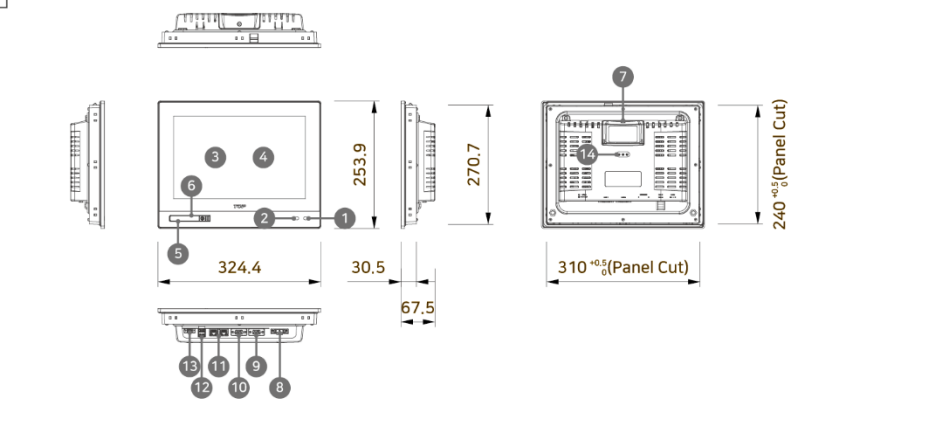
TOPRC1900WD(-Ex) 0□



TOPRC1500WD(-Ex) 0□



TOPRC1200WD(-Ex) 0□



- | | | | | | | | |
|---|-------------|---|--------------|----|--------------|----|-------------|
| 1 | Power LED | 5 | USB OTG | 9 | Serial COM1 | 13 | Serial COM3 |
| 2 | IrDA Sensor | 6 | USB Host | 10 | Serial COM2 | 14 | Status LED |
| 3 | LCD Panel | 7 | SD Card Slot | 11 | Ethernet 2Ch | | |
| 4 | Touch Panel | 8 | Power Input | 12 | USB Host 2P | | |