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M2I Corporation
Man · Machine · Interface

TOP RT / RC SERIES



TOP RT / RC SERIES

Product Catalog

M2I Corporation

HEAD OFFICE ADDRESS: 11-35, Simin-daero 327beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do 14055, Republic of Korea
TEL: 82-31-465-3366
FAX: 82-31-465-3355

V 1.4E 250402

www.m2i.co.kr/eng

TOPRT | RC SERIES

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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



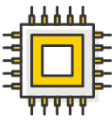
T6 Anti-Explosive Certificates

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



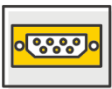
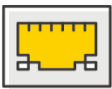
IrDA Integrated

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

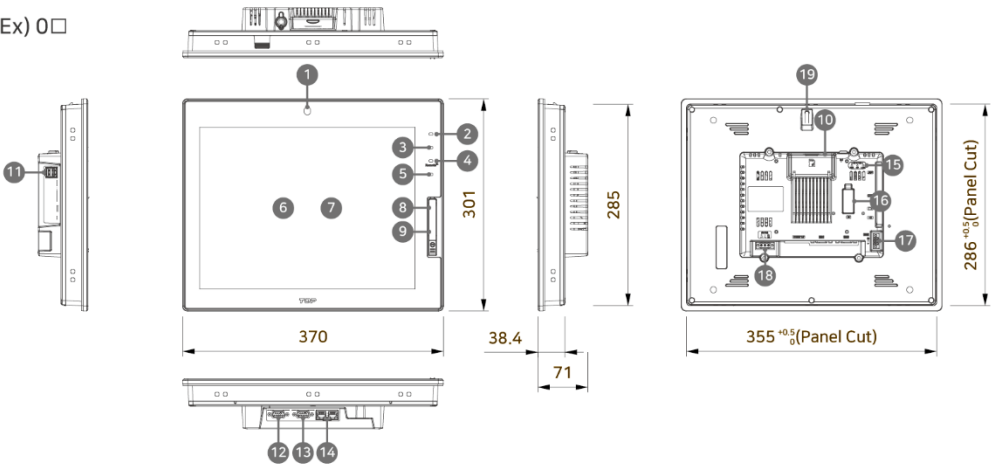
Serial 3 Ports as COM1/COM2/COM3
Ethernet 2 Channels with Independent IP

TOPRT40 SPECIFICATIONS

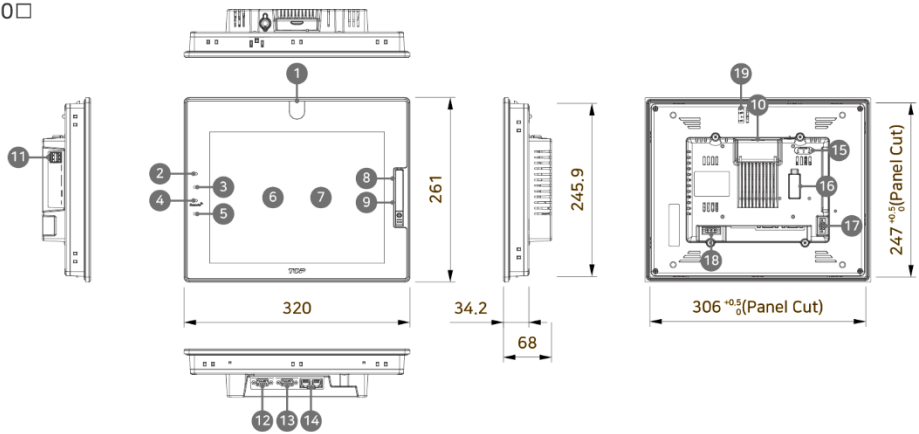
Functional		TOPRT1540XD(-Ex) 0□	TOPRT1240XD(-Ex) 0□	TOPRT1040SD(-Ex) 0□
Display	Display Type	15" TFT Color	12.1" TFT Color	10.4" TFT Color
	Color		16M Colors	
	Display Area(mm)	304.1 x 228.1	246 x 184.5	211.2 x 158.4
	Resolution(dot)	1024 x 768		800 x 600
	Brightness Level	10 Levels(by Software)		
	Backlight 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): RS-232C		
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, 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

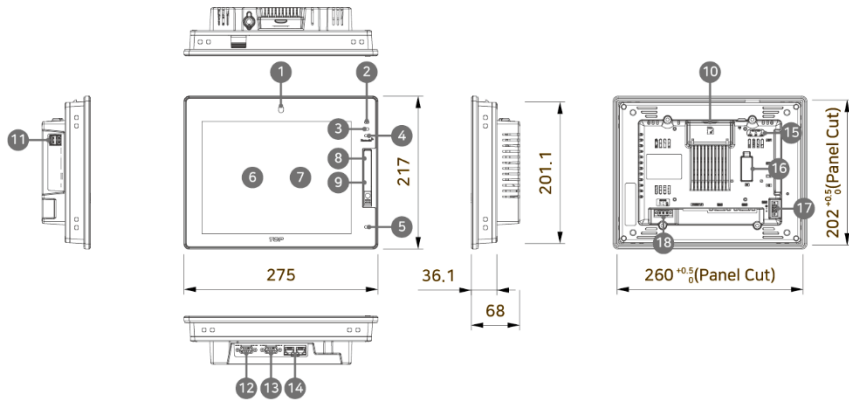
TOPRT1540XD(-Ex) 0□



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

Anti-Explosive / Normal Premium Wide HMI

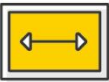
INTERFACE

- 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)



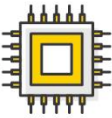
TOPRT WIDE

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



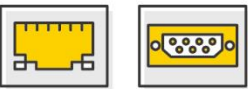
Solid Frame

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

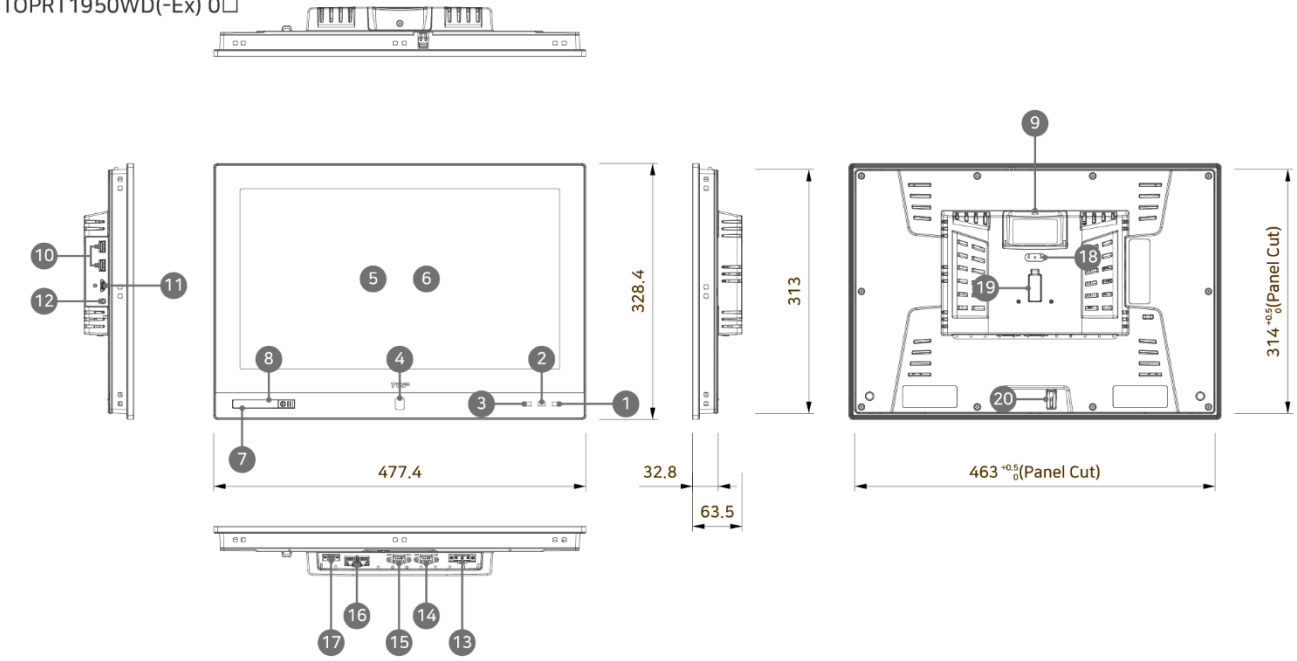
TOPRT WIDE SPECIFICATIONS

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): RS-232C	
Power	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	
	Input Voltage	24Vdc(20 ~ 28Vdc)	
Environment	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)	
	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)	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	

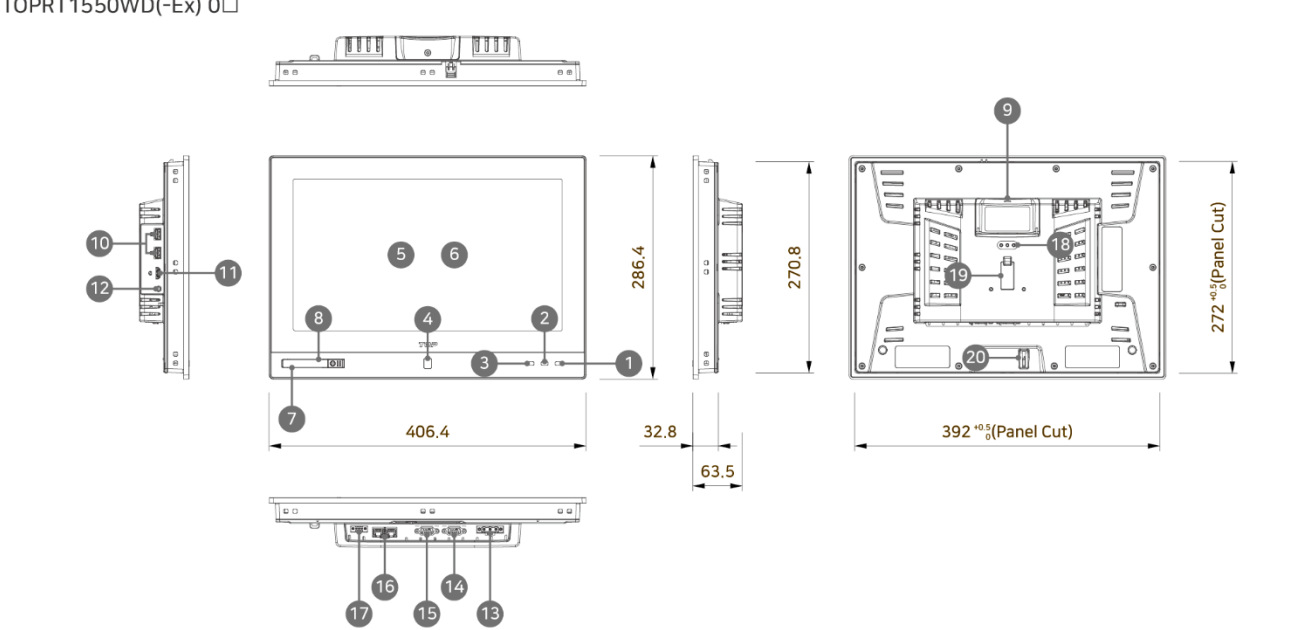
* The option model [TOPRT□□50WD(-Ex) 01] does not support wireless features (Wi-Fi, Bluetooth, IrDA).
* The [-Ex] model is a product that has obtained explosion-proof certification.

DRAWING

TOPRT1950WD(-Ex) 0□



TOPRT1550WD(-Ex) 0□



- 1

Power LED
- 2

IrDA Sensor
- 3

Proximity Sensor
- 4

Camera
- 5

LCD Panel
- 6

Touch Panel
- 7

USB OTG
- 8

USB Host
- 9

SD Card Slot
- 10

USB Host 2P
- 11

HDMI
- 12

AUDIO
- 13

Power Input
- 14

Serial COM1
- 15

Serial COM2
- 16

Ethernet 2ch
- 17

Serial COM3
- 18

Status LED
- 19

Expansion Module Connector
- 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



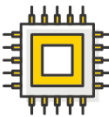
TOPRC WIDE

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



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

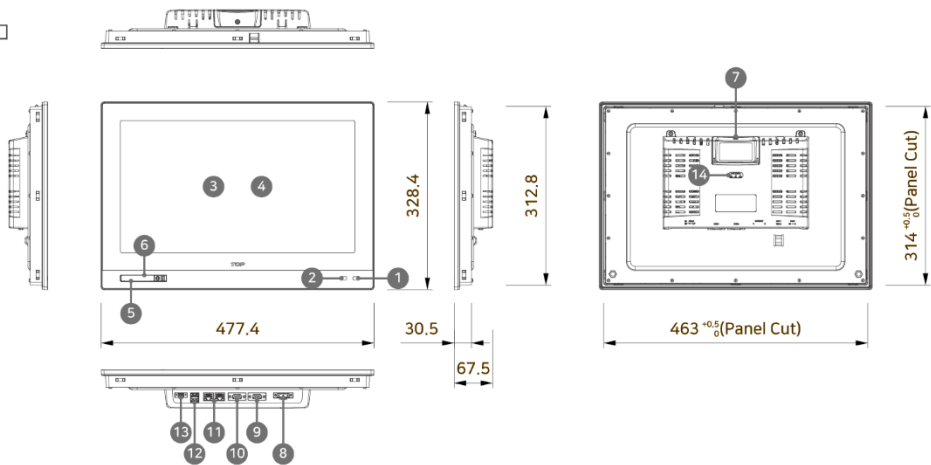
TOPRC WIDE SPECIFICATIONS

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): RS-232C		
	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		
Power	Input Voltage	24Vdc(20~28Vdc)		
	Power Consumption	40W		
	Voltage Sag	24Vdc, Within 10ms		
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)		
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		

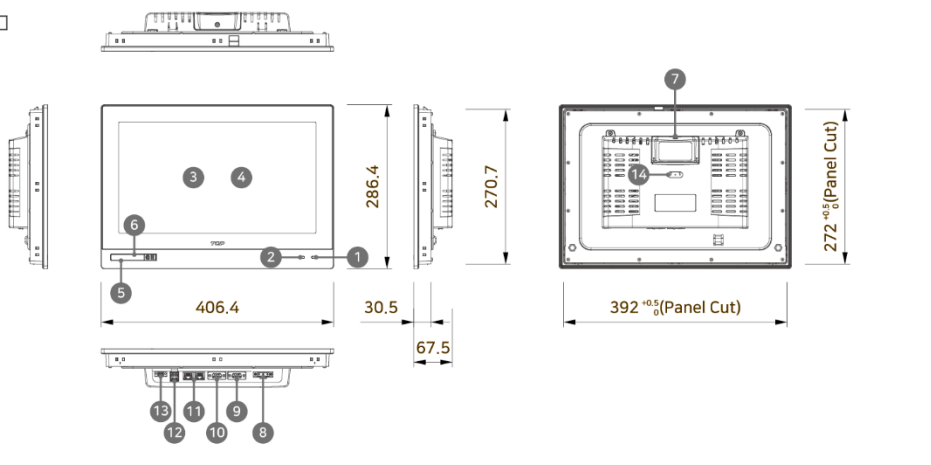
* The option model [TOPRC□□00WD(-Ex) 01] does not support wireless features (Wi-Fi, Bluetooth, IrDA).
* The [-Ex] model is a product that has obtained explosion-proof certification.

DRAWING

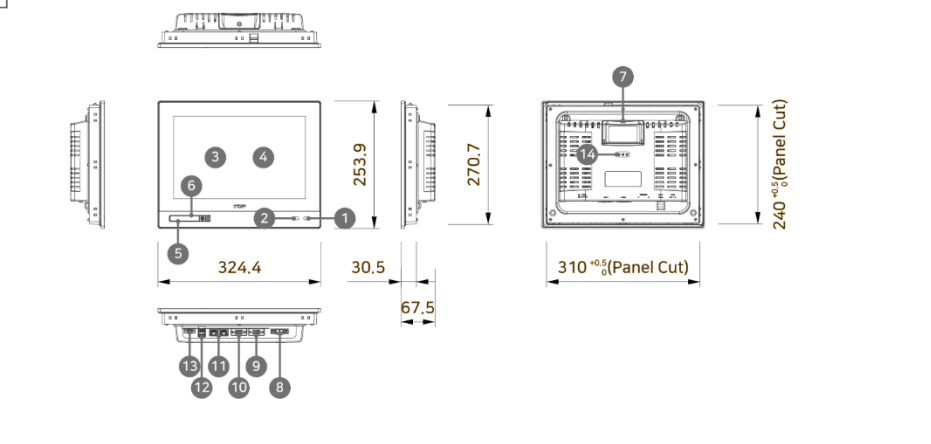
TOPRC1900WD(-Ex) 0□



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 | | |