

Caution | Please read the manual before use.
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TOP RT SERIES



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Product Catalog

M2I Corporation

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TOPRT1240XD-Ex

Premium Anti-Explosion RT Series

INTERFACE

FRONT ■ CAMERA ■ USB OTG ■ SENSORS

REAR ■ SERIAL 3 PORTS ■ ETHERNET 2 CHANNEL ■ USB 3.0 2 PORTS ■ SD CARD ■ FIELDBUS

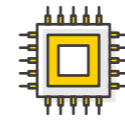


FEATURES



T6 TEMPERATURE LEVEL CERTIFICATION

Qualified for ATEX, IECEx, Hazloc certification



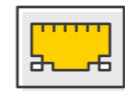
MORE POWERFUL CPU

Twice as Fast as TOPRT1210SD-Ex Model



IR SENSOR

Communication with Wireless Barcode Reader and Scanner (M2I's MSR-B2MWA-Ex)



SUPPORTING 2 ETHERNET CHANNELS / SERIAL 3 PORTS

2 Ethernet channels with different IP



DETACHABLE UNIT STRUCTURE

Efficient combination of variable-size display unit and process unit depend on system requirement



FRONT CAMERA

4 Adjustable Angles: Up20°, 10°, 0°, Down10°



ALUMINUM FRAME

Aluminum body with outstanding durability and splendid design



FRONT-SIDE PROXIMITY / BRIGHTNESS SENSOR

Switch power saving mode to operating mode depends on how closer the operator is adjusting brightness of display depended on surrounding circumstances



FRONT USB OTG / USB HOST

Supporting 3.0 USB Host 2Ports / Front USB OTG



16M FULL COLOR

Bright and vivid full color, supports vector image library

TOPRT1240XD-Ex SPECIFICATIONS

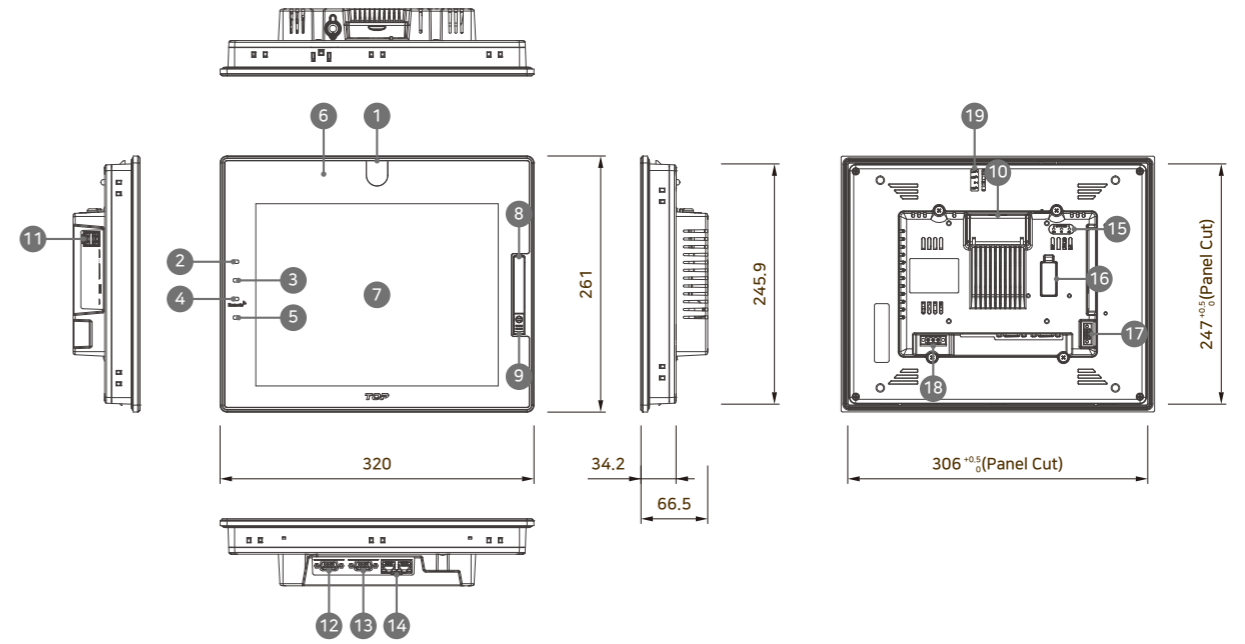
Functional		TOPRT1240XD-Ex(Display Unit)
Display	Display Type	12.1" TFT Color
	Color	16M Colors
	Display Area(mm)	246 x 184.5
	Resolution(dot)	1024 x 768
	Brightness Level	10 Levels(by Software)
Touch	Backlight Type	LED
	Backlight Life	50,000 hours
	Touch Type	Analog Resistive Film
Interface	Resolution(Cell)	1024 x 768
	Front Camera	USB UVC Max. Resolution: 640 x 480, 4 Adjustable Angles: Up20°, 10°, 0°, Down10°
	Proximity Sensor	YES
	Illumination Sensor	YES
	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
USB Host	USB Host	USB 2.0 Compatible, Output 5Vdc/0.9A Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol) Connector: USB Type A 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 Micro-B(Front) x 1
Structure	Panel Cut(mm)	306 x 247
	External Dimension(mm)	320 x 261 x 34.2
	Weight(kg)	2.79

Functional		TOPRT1240XD-Ex(Process Unit)
Serial COM1	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 ~ 187.5kbps 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 ~ 187.5kbps Connector: DSUB 9Pin x 1
Interface	Serial COM3	RS-485 Asynchronous Data Bit: 7/8 Bits, Stop Bit: 1/2 Bits, Parity Bit: None/Odd/Even Baud Rate: 2400 ~ 187.5kbps 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 Host	USB 3.0 Compatible, Output 5Vdc/0.9A Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol) Connector: USB Type A x 2
	SD Card	SD Card Slot x 1, SDHC(Max. 32GB)
Memory & Others	Option Modules	CAM32
	Printer	Roll Printer(EPSON protocol): RS-232C
	Screen Memory	128MB
	Backup Memory	512KB: System Buffer(10K Word), Including Alarm/Logging/Recipe
	Backup Period	Permanent
Structure	Real Time Clock	Built in
	Status LED	3 LEDs(Power, Operation, Link) Built in
	External Dimension(mm)	201.6 x 147.6 x 37.3
Weight(kg)	0.82	

Functional		TOPRT1240XD-Ex(Display Unit + Process Unit)
Power	Input Voltage	24Vdc(20 ~ 28Vdc)
	Power Consumption	18W or Less
	Voltage Sag	24Vdc, Within 10ms
	Insulation Resistance	500Vdc, 10MΩ
	Operation Temperature(°C)	-10 ~ +50
Environment	Storage Temperature(°C)	-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 or Less)
	Protection Classification	IP54(Font)
	Certification	CE, KC, UL/cUL, ATEX, IECEX, UL/cUL in Hazloc
Structure	Weight(kg)	3.6
	Cooling System	Natural Air Circulation
	Case Material	Aluminum

DRAWING

TOPRT1240XD-Ex



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