

Caution | **Please Read the Manual Before Use.**
Real Color of Product and Catalog Image Color Can Be Different.
Contents in This Catalog Can Be Changed Without Any Notice.



TOP GLOBAL



TOP GLOBAL
Product Catalog

MX On 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

MX On Official YouTube Channel
Tutorials & Troubleshooting Guides



LinkedIn
New launches. Join us on LinkdIn



V 1.0E 260601

mxon.co.kr/eng

TOP LINE-UP



TOP RT 40

PREMIUM

Ex

15

12

10

Next-Generation TOPR Series Premium HMI Featuring High-Speed Performance, IrDA Sensor, and Wide-Angle Camera

Ex / Non-Ex Premium HMI



TOP Rx

Ex

15

12

10

8

5

Standard Series: Optimized for Industrial Environments, Continuing the Legacy of XTOP

Ex / Non-Ex Standard HMI



TOP RW

10

7

5

4

Wide Series: Larger Display Featuring Only Essential Functions

Wide HMI



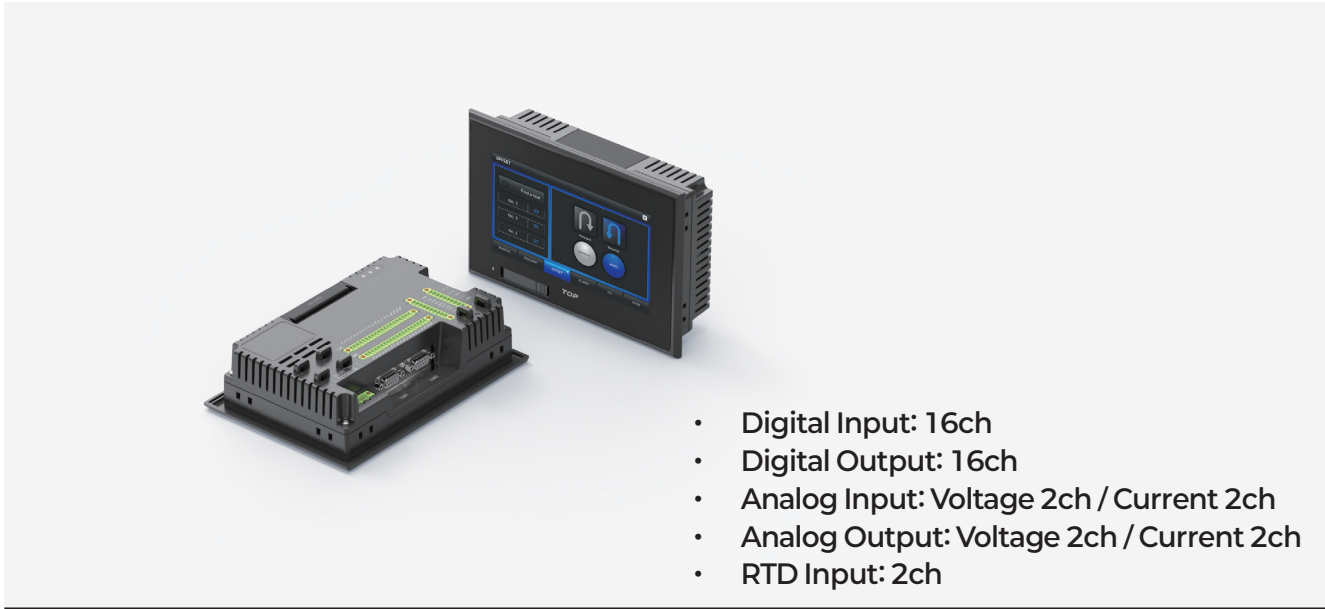
TOP RH

7

Handy Type Wired/Wireless Series: Ergonomic and Sleek Design for Handheld Use

Handy Type HMI

TOP GLOBAL LINE-UP



- Digital Input: 16ch
- Digital Output: 16ch
- Analog Input: Voltage 2ch / Current 2ch
- Analog Output: Voltage 2ch / Current 2ch
- RTD Input: 2ch

TOP RW10

7

High-Efficiency All-in-One HMI Integrating Analog and Digital I/O
HMI with Integrated I/O



TOP RB

10 7 4

Slim Frame HMI Designed for Sleek Integration and Flexible Customization
Slim Frame HMI



TOP RP

Box-Type HMI with Compact Design, Enhancing Flexibility in System Configuration
Box Type HMI

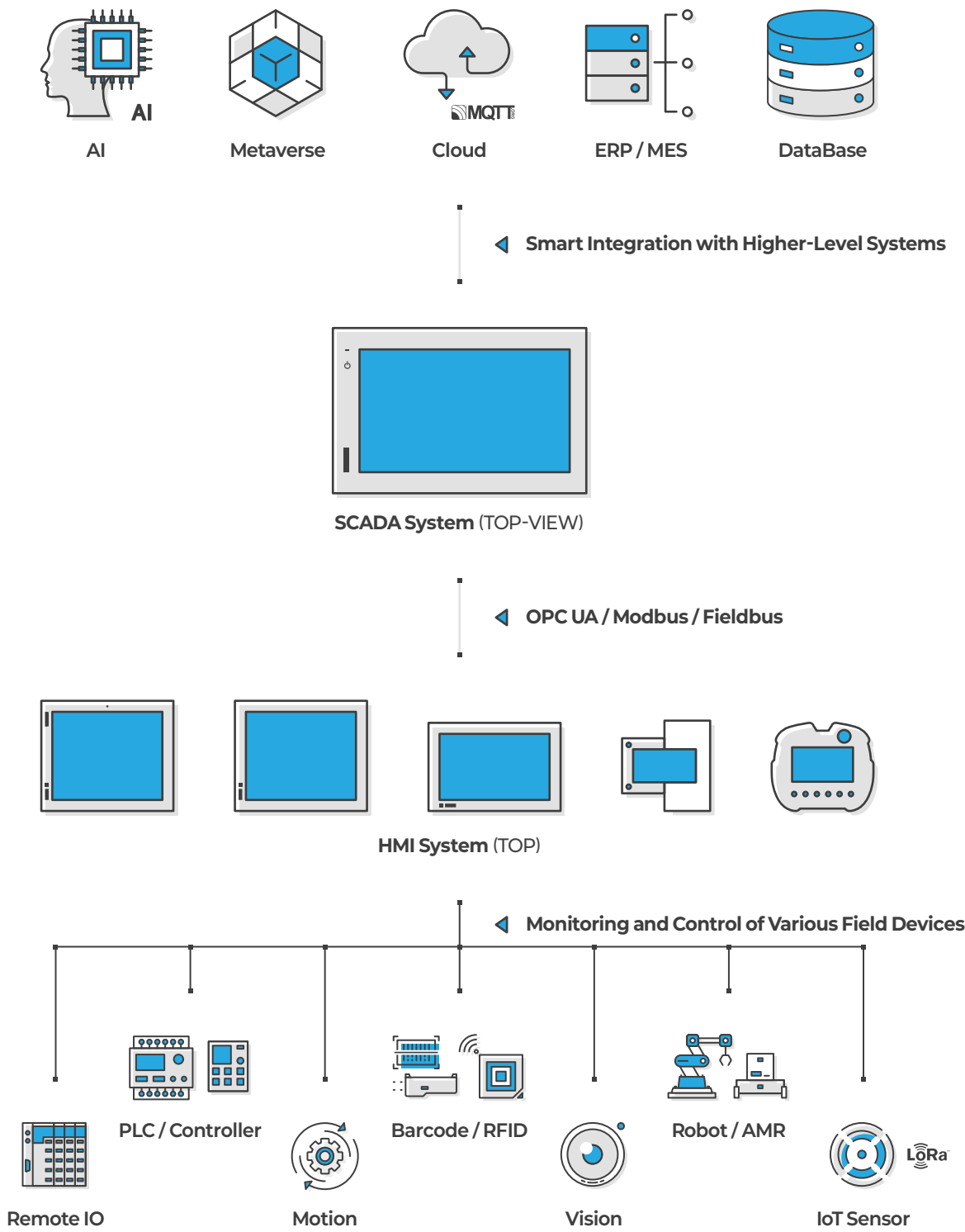


TOP SE

7

Cost-effective high resolution dual core HMI
Hardware configuration with Dual core 1Ghz ARM Cortex-A7

HMI (TOP) / SCADA (TOP-VIEW) Operation in Industrial Sites



KEY FEATURES

400+ Protocol

Supports Over 400 Industrial Communication Protocols

Provides Stable Data Integration Between Equipment and Systems by Supporting a Wide Range of Industrial Communication Protocols, Enabling Flexible System Configuration and Operation Even in Complex Industrial Environments.

21 CFR Part 11

21 CFR Part 11 Compliance

Compliant with the U.S. FDA's 21 CFR Part 11 Standards, Providing a Safe and Efficient Work Environment Through Operator Authentication, Supervisory Control History Tracking, Database Management, and PDF Management.

OPC UA

Industrial-Standard OPC UA Support

Through the Forward-Looking and Highly Extensible OPC UA Protocol, It Enables Reliable Data Collection and Management, Ensuring Seamless Integration with Higher-Level Systems.

SECS / GEM

SECS / GEM Protocol Support

Supports HSMS SECS/GEM Communication Protocols Used in the Semiconductor Industry, Providing Reliable Data Communication Tailored to Specific Operational Scenarios.

VNC

Proprietary VNC Provided

Our High-Performance, In-House Developed VNC Allows Remote Access to TOP & TOP-VIEW Screens in Industrial Environments, Enabling Real-Time Monitoring and Control via Mobile Devices, Tablets, and PCs.

SMS & Email

SMS & Email Dispatch

Automatically Sends SMS and Emails Stored in the Program According to On-Site Conditions, Allowing Supervisors or Customers to Instantly Check the Factory Status.

TOPRT40 SERIES

Ex / Non-Ex Premium HMI

INTERFACE *Varies by Model.

- Front
- CAMERA

■

USB OTG

■

USB HOST

■

AUTO BRIGHTNESS SENSOR

□

IrDA SENSOR

■

PROXIMITY SENSOR
- Rear
- SERIAL 3 PORTS

■

ETHERNET 2 CHANNEL

■

3.0 USB HOST 2 PORTS

□

SD CARD

■

OPTION MODULE(CAM32)

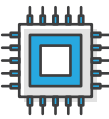
Ex

Non-Ex



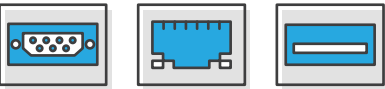
TOPRT40

FEATURES



Enhanced CPU

Supports Twice the Speed Compared to the TOPRX Model



Serial / Ethernet / USB Interfaces

Provides 3 Serial Ports: COM1 / COM2 / COM3
Supports Dual-Channel Ethernet Networks with Different IPs
Front 2.0 USB OTG and HOST Ports Available
Rear 3.0 USB HOST Ports x 2



Built-In IrDA (Infrared) Sensor (Optional)

Wireless Communication with Our Barcode Scanner
Automatic Recognition Within 0.5 Meters



Proximity Sensor / Auto-Brightness Sensor

Built-In Proximity Sensor That Can Switch Modes Based on Working Distance
Built-In Auto-Brightness Sensor to Adjust Screen Brightness



Aluminum Frame

An Aluminum Frame Featuring Robust Durability and a Premium Design



T6 Temperature Class Explosion-Proof Certification

Certified for Explosion-Proof Standards: KCs (Korea), ATEX (Europe), IECEx (International), Hazloc (North America)



Built-In Front Camera (Optional)

Adjustable Wide-Angle Camera Included

Optional Camera, SD Card, IrDA Sensor

	Model	Camera	SD Card	IrDA Sensor
TOPRT1540(-Ex) TOPRT1240(-Ex) TOPRT1040(-Ex)	Blank	O	X	O
	01	X	X	O
	02	O	O	O
	03	X	O	O
	04	O	X	X
	05	X	X	X
	06	O	O	X
	07	X	O	X

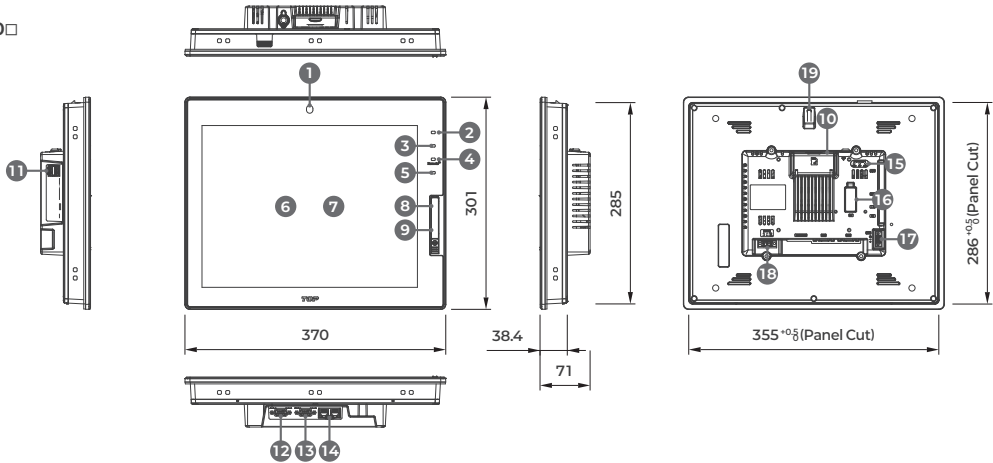
TOPRT40 SPECIFICATIONS

Non-Ex Model Ex Model		TOPRT1540XD 0□ TOPRT1540XD-Ex 0□	TOPRT1240XD 0□ TOPRT1240XD-Ex 0□	TOPRT1040SD 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		
Touch	Backlight Life	50,000 hours		
	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/0.5A, 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 MX On 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)		
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	25W	18W	15W
	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)		
	Protection Classification	IP54(Front)		
	Certification	General Model: KC, CE, UL/cUL Explosion Proof Model: KC, CE, UL/cUL in Hazloc, KCs, CCC, IECEx, ATEX		
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		

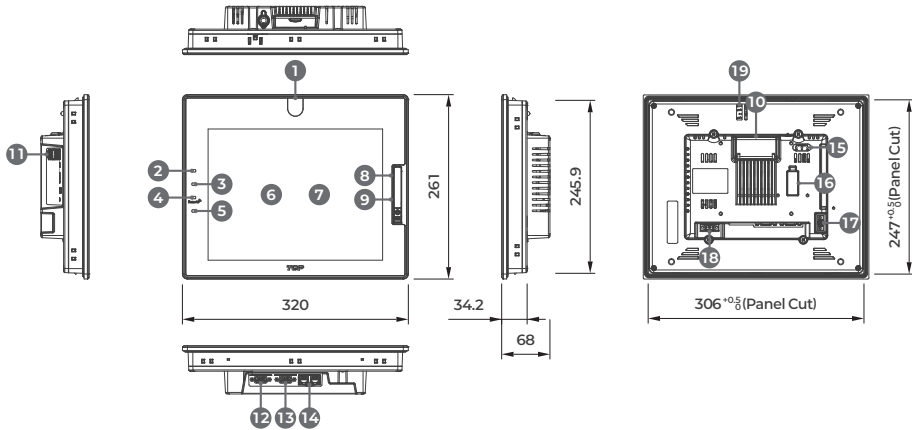
* Front Camera, SD Card, and IrDA Sensor Options Available.

DRAWING

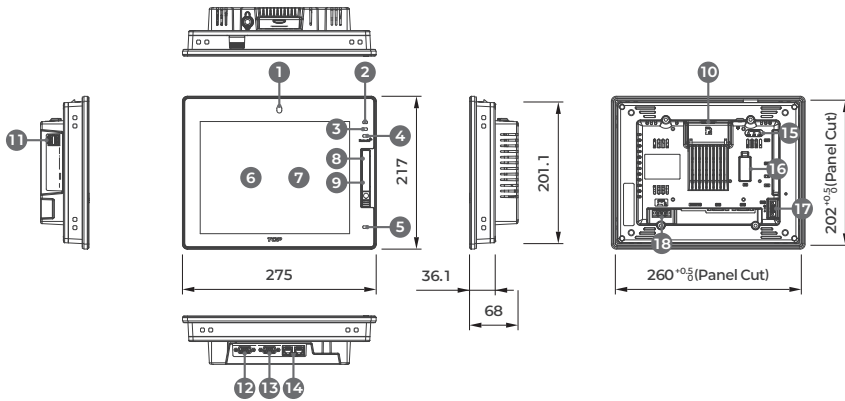
TOPRT1540XD 0□
TOPRT1540XD-Ex 0□



TOPRT1240XD 0□
TOPRT1240XD-Ex 0□



TOPRT1040SD 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

TOPRX SERIES

Ex / Non-Ex Standard HMI

INTERFACE *Varies by Model.

- SERIAL 3(2) PORTS
- ETHERNET 2(1) CHANNEL
- USB HOST
- USB OTG
- SD CARD(OPTION)

Ex

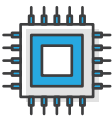


Non-Ex





FEATURES



Quad Core CPU

Equipped with a Quad-Core CPU to Support High-Speed Processing



16M Full Color

Bright and Vivid Full-Color Display, Supporting Vector and 3D Libraries



Sleek Integrated Body Design

Premium Integrated Body Offering Elegance and Lightweight Usability



XTOP Series Compatibility

Provides the Same Panel Cut as Discontinued XTOP Models
Can Easily Replace Existing XTOP Products



Front OTG USB Port

Supports Convenient Program Transfer in Transfer Mode and Allows Connection of USB Devices (Memory, Barcode Scanner, Camera, etc.) in HOST Mode



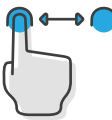
Serial 3 Ports / Ethernet 2 Channels

Provides COM1 / COM2 / COM3 Serial Ports and Supports Heterogeneous Networks with Different IP Addresses (Models 10" and Above)



T6 Temperature Class Explosion-Proof Certification

Certified for Explosion-Proof Standards: KCs (Korea), CCC (China), ATEX (Europe), Hazloc (North America), IECEx (International)



Touch Drag Function

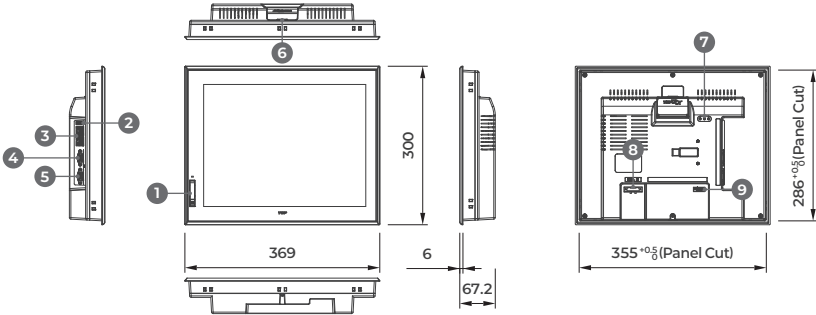
Allows Drawing on the Screen to Leave Memos or Drag Down Top Menus Interactively

TOPRX SPECIFICATIONS

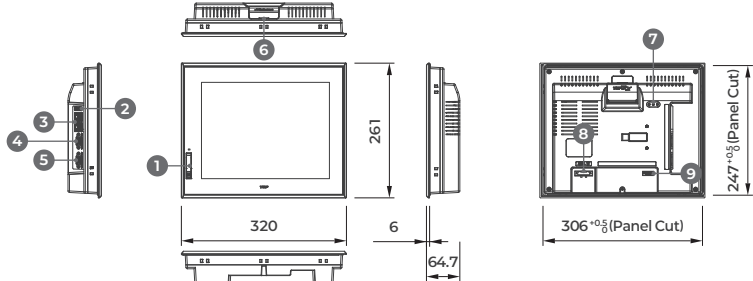
Non Ex Model		TOPRX 1500XD	TOPRX 1200XD	TOPRX 1200SD	TOPRX 1000SD	TOPRX 1000VD	TOPRX 0800SD	TOPRX 0500VD	
Ex Model		TOPRX 1500XD-Ex	TOPRX 1200XD-Ex	TOPRX 1200SD-Ex	TOPRX 1000SD-Ex	TOPRX 1000VD-Ex	TOPRX 0801SD	TOPRX 0501VD	
Display	Display Type	15" TFT Color	12.1" TFT Color		10.4" TFT Color		8.4" TFT Color	5.6" TFT Color	
	Color	16M Colors							
	Display Area(mm)	304.1 x 228.1	246 x 184.5		211.2 x 158.4		170.4 x 127.8	112.9 x 84.7	
	Resolution(dot)	1024 x 768		800 x 600		640 x 480	800 x 600	640 x 480	
	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		640 x 480	800 x 600	640 x 480	
	Touch Life	1 million times or more							
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					Not available		
	Ethernet	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: RJ-45 x 2					IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: RJ-45 x 1		
	USB Host	USB 2.0 Compatible, Output 5Vdc/0.5A 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 Mini-B(Front) x 1							
	SD Card	SD Card Slot x 1, SDHC(MAX 32GB) TOPRX0801SD, TOPRX0501VD: SD Card not supported							
	Printer	Roll Printer(EPSON protocol)							
	Memory & Others	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	18W	15W	15W, Ex model: 12W		12W			
	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)							
	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 under)							
	Protection Classification	General model: IP65(Front) Explosion proof model: IP54(Front) for CCC, IP4X(Front) for KCs							
	Certification	General model: KC, CE, UL/cUL Explosion proof model: KC, CE, UL/cUL in Hazloc, KCs, CCC, IECEx, ATEX							
Structure	Panel Cut(mm)	355 x 286	306 x 247		260 x 202		222 x 168	158 x 126	
	External Dimension(mm)	369 x 300 x 67.2	320 x 261 x 64.7		274 x 216 x 64.7		236 x 182 x 58.9	172 x 140 x 58	
	Weight(kg)	2.78	2.18		1.68		1.06	0.62	
	Cooling System	Natural air circulation							
	Case Material	PC(Resistance to flame)							

DRAWING

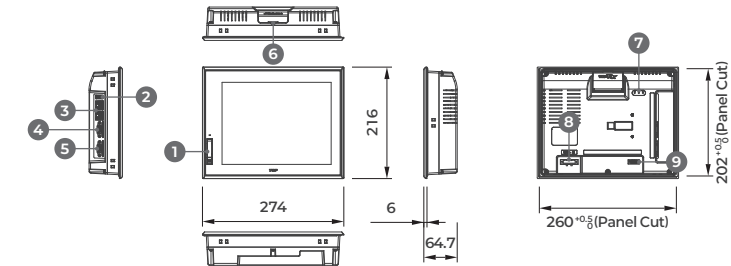
TOPRX1500XD
TOPRX1500XD-Ex



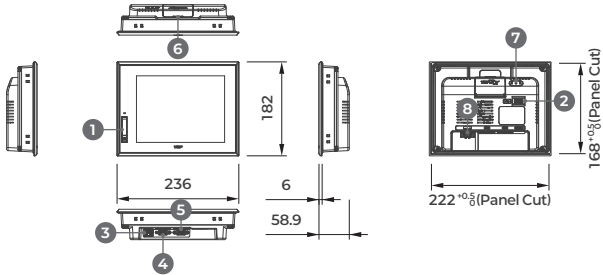
TOPRX1200XD
TOPRX1200SD
TOPRX1200XD-Ex
TOPRX1200SD-Ex



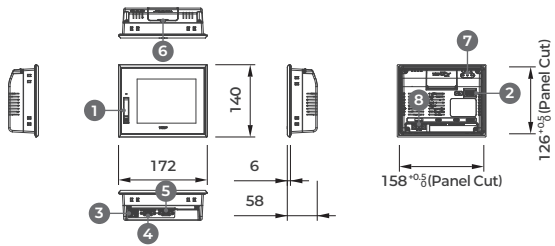
TOPRX1000SD
TOPRX1000VD
TOPRX1000SD-Ex
TOPRX1000VD-Ex



TOPRX0800SD
TOPRX0801SD



TOPRX0500VD
TOPRX0501VD



- 1 USB OTG(Mini 5Pin B-Type)

2 USB Host 1P

3 Ethernet
- 4 Serial COM2

5 Serial COM1

6 SD Card Slot(Optional)
- 7 Status LED

8 Power Input

9 Serial COM3

TOPRW SERIES

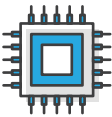
Wide HMI

INTERFACE *Varies by Model.

- SERIAL 2 PORTS
- ETHERNET 1 CHANNEL
- USB HOST
- USB OTG
- SD CARD(OPTION)



FEATURES



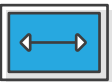
Quad Core CPU

Equipped with a Quad-Core CPU to Support High-Speed Processing



16M Full Color

Bright and Vivid Full-Color Display, Supporting Vector and 3D Libraries



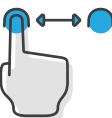
Supports 1024 x 600, 800 x 480 High Resolution

Wide Screen Ratios of 10", 7", and 5" Allow a Larger Workspace



XTOP WIDE Series Compatibility

Compatible with XTOP WIDE Models (10", 7") Panel Cut
Can Easily Replace Existing XTOP WIDE Products



Touch Drag Function

Allows Drawing on the Screen to Leave Memos or Drag Down Top Menus Interactively



Sleek Integrated Body Design

Premium Integrated Body Offering Elegance and Lightweight Usability



OTG USB Port

Supports Convenient Program Transfer in Transfer Mode and Allows Connection of USB Devices (Memory, Barcode Scanner, Camera, etc.) in HOST Mode



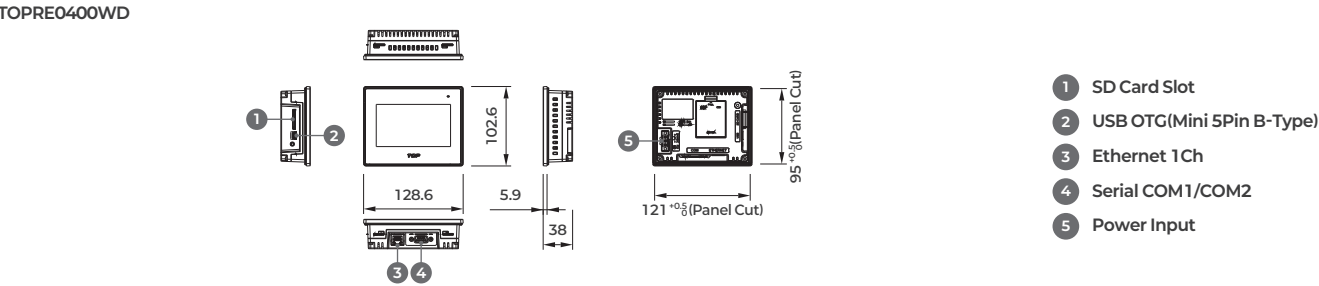
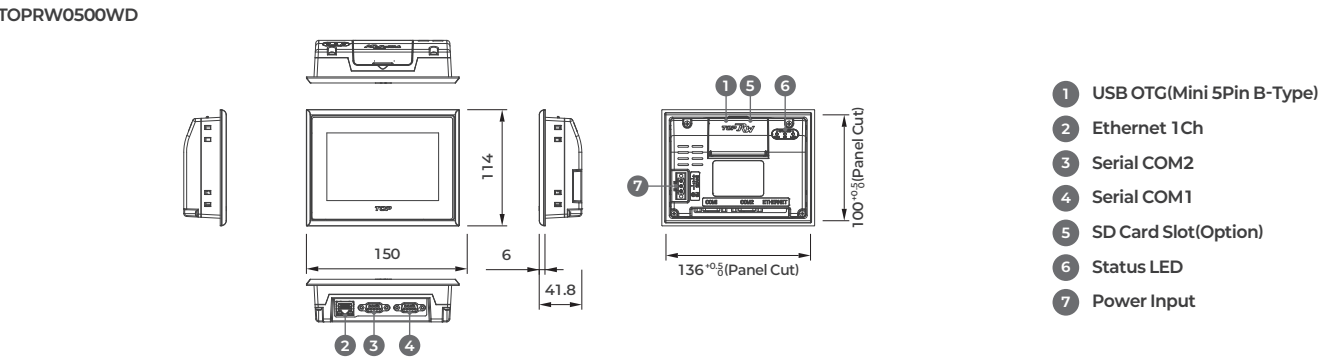
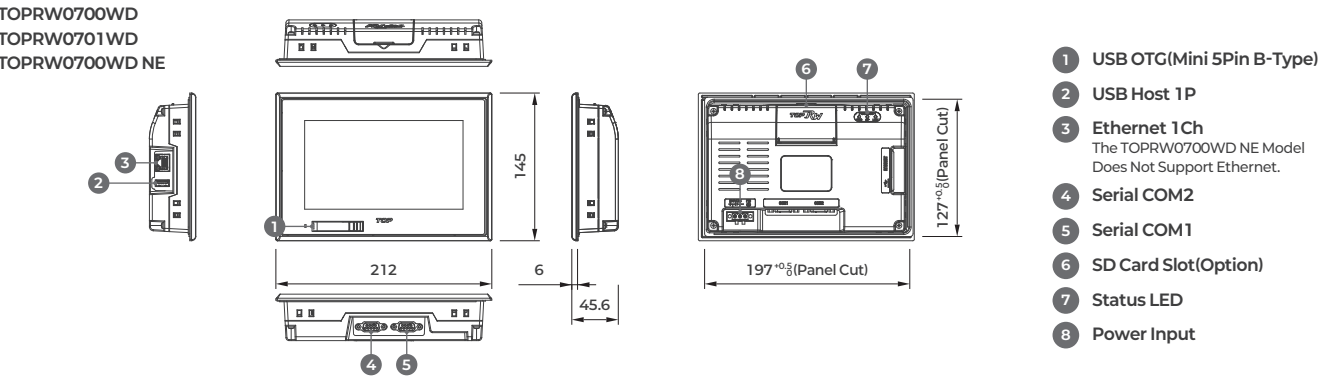
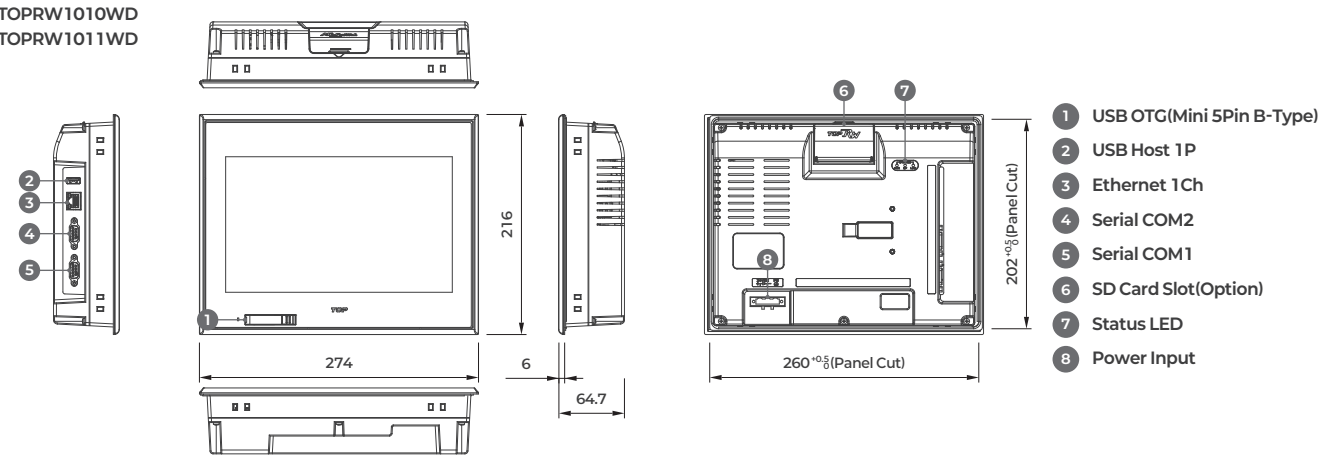
Serial 2 Ports / Ethernet 1 Channel

COM1 / COM2 Serial Ports

TOPRW SPECIFICATIONS

Functional		TOPRW1010WD TOPRW1011WD	TOPRW0700WD TOPRW0701WD	TOPRW0700WD NE	TOPRW0500WD	TOPRE0400WD
Display	Display Type	10.1" TFT Color	7" TFT Color	5" TFT Color	4.3" TFT Color	
	Color		16M Colors			
	Display Area(mm)	222.72 x 125.28	154 x 86	108 x 64.8	95.04 x 53.85	
	Resolution(dot)	1024 x 600	800 x 480		480 x 272	
	Brightness Level		10 Levels(by software)			
	Backlight Type		LED			
Touch	Backlight Life		50,000 hours			
	Touch Type		Analog resistive film			
	Resolution(Cell)	1024 x 600	800 x 480		480 x 272	
	Touch Life		1 million times or more			
	Serial COM1 (TOPRE: RS-232C Only)		RS-232C 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		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 COM2 (TOPRE: RS-422/485 Only)		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			
Interface	Ethernet	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX Connector: RJ-45 x 1	Not available	IEEE802.3i/IEEE802.3u,10BASE-T/100BASE-TX Connector: RJ-45 x 1		
	USB Host	USB 2.0 Compatible, Output 5Vdc/0.5A Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol) Connector: USB Type A x 1		Not available		
	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		Connector: USB Mini-B(Rear) x 1	USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m Support: USB Storage, USB Barcode Scanner (Standard Keyboard Protocol) Connector: USB Mini-B(Side) x 1	
Memory & Others	SD Card		SD Card Slot x 1, SDHC(MAX 32GB) TOPRW1011WD, TOPRW0701WD: SD Card not supported			
	Printer		Roll Printer(EPSON protocol)			
	Screen Memory		128MB		64MB	
	Backup Memory		512KB: System buffer(10K Word), Including Alarm/Logging/Recipe			
Power	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	15W		12W		
	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)			
	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 under)			
	Protection Classification		IP65(Front)			
	Certification		KC, CE, UL/cUL			
Structure	Panel Cut(mm)	260 x 202	197 x 127	136 x 100	121 x 95	
	External Dimension(mm)	274 x 216 x 64.7	212 x 145 x 45.6	150 x 114 x 41.8	128.6 x 102.6 x 38	
	Weight(kg)	1.7	0.72	0.4	0.28	
	Cooling System		Natural air circulation			
	Case Material		PC(Resistance to flame)			

DRAWING



TOPRH SERIES

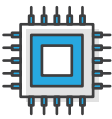
Handy Type Wired HMI

INTERFACE

- SERIAL 2 PORTS
- EHTERNET 1 CHANNEL
- USB HOST 2 PORTS
- USB OTG
- SD CARD



FEATURES



Quad Core CPU

Equipped with a Quad-Core CPU to Support High-Speed Processing



16M Full Color

Bright and Vivid Full-Color Display, Supporting Vector and 3D Libraries



Sleek and Ergonomically Designed

Provides a Stable and Comfortable Grip for Handling with Hands and Arms



KEY Lock, Emergency, 3-Position Switch

Ensures Safety with Key Lock, Emergency Button, and 3-Position Switch



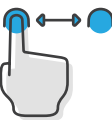
Function Keys and Touch Pen

Convenient Operation with 6 Function Keys, Including LED and a Touch Pen



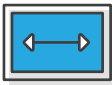
Shock-Resistant Bumper

Silicon Shock-Resistant Bumpers Mounted on All Sides for Safer Usage



Touch Drag Function

Allows Drawing on the Screen to Leave Memos or Drag Down Top Menus Interactively



Supports 1024 x 600 High Resolution

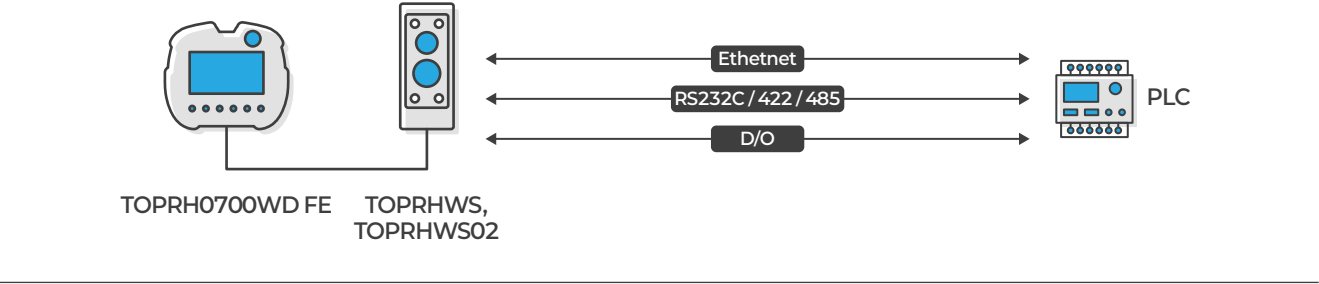
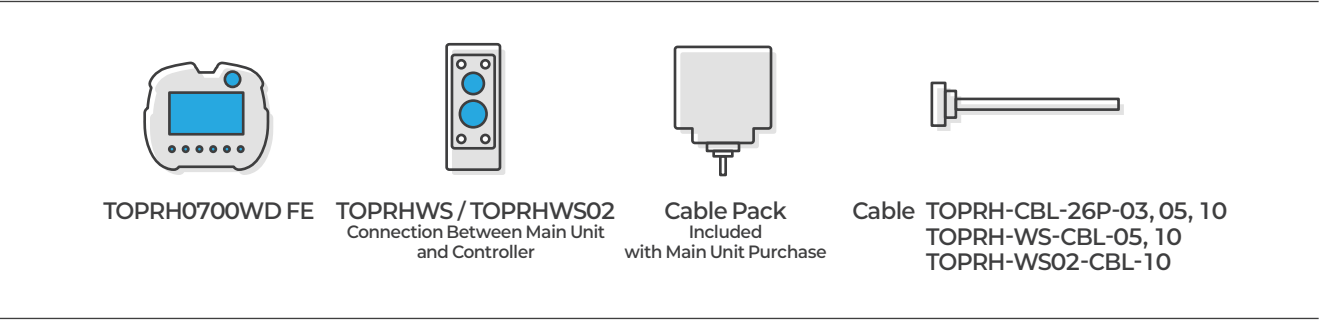
Wide Screen Ratio Allows for a Larger Workspace

TOPRH WIRED / TOPRHWS SPECIFICATIONS

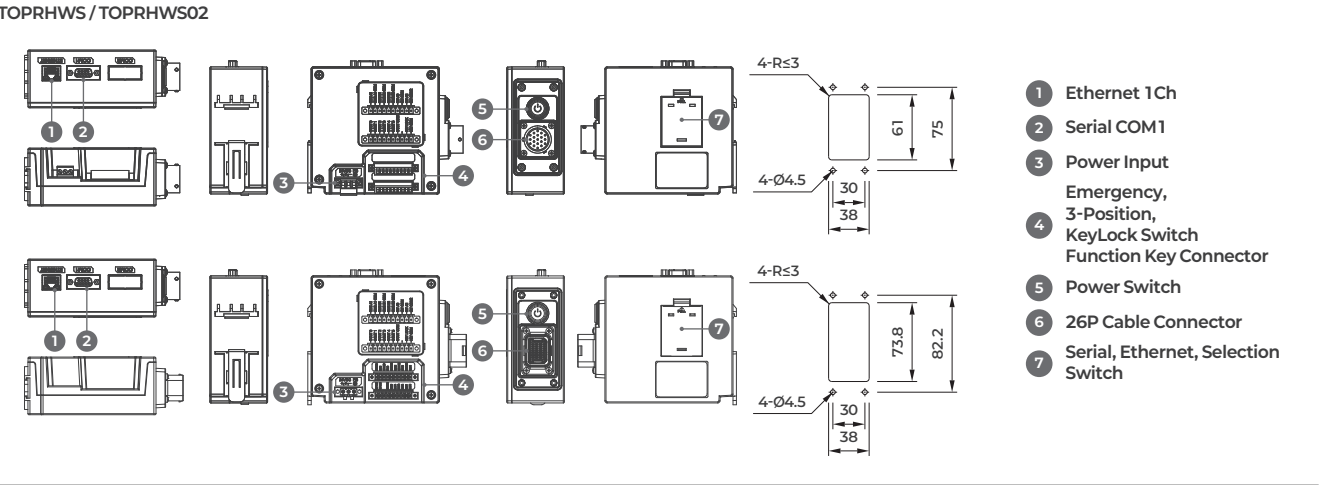
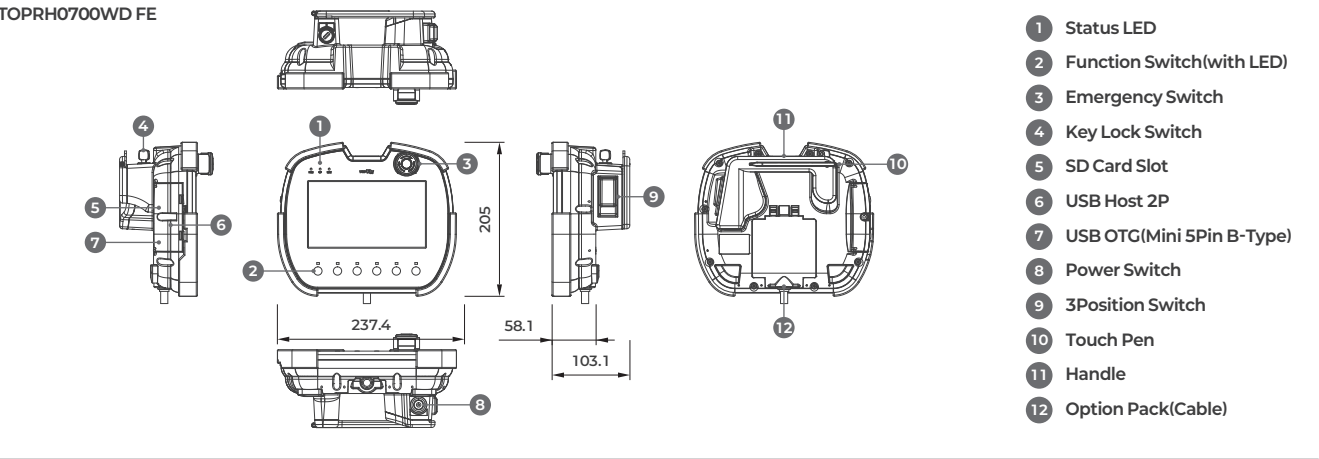
Functional		TOPRH0700WD FE
Display	Display Type	7" TFT Color
	Color	16M Colors
	Display Area(mm)	154.21 x 85.92
	Resolution(dot)	1024 x 600
	Brightness Level	10 Levels(by software)
	Backlight Type	LED
Touch	Backlight Life	50,000 hours
	Touch Type	Analog resistive film
	Resolution(Cell)	1024 x 600
	Touch Life	1 million times or more
Interface	Serial COM1	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
	Ethernet	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX
	USB Host	USB 2.0 Compatible, Output 5Vdc/0.5A Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol) Connector: USB Type A x 2
	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 x 1
	SD Card	SD Card Slot x 1, SDHC(MAX 32GB)
	Function Key	6Position with LED
	Printer	Roll Printer(EPSON protocol)
	Machanical Switchs	Emergency Switch 1A-2B, Keylock Switch 1A, 3Position enable Switch OFF-ON-OFF(2CH)
	Power Switch	Push-Lock power on-off switch built in
	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	Consumption	20W
	Voltage Sag	24Vdc, Within 10ms
	Insulation Resistance	500Vdc, 10MΩ
Environment	Operation Temperature(°C)	-10 ~ +45
	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)
	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 under)
	Protection Classification	IP4X
Structure	Certification	KC, CE, UL/cUL
	External Dimension(mm)	237 x 205 x 103
	Weight(kg)	1.1(Except Cable Pack)
	Cooling System	Natural air circulation
	Case Material	PC(Resistance to flame)

Functional		TOPRHWS	TOPRHWS02
Interface	Serial COM1	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	
	Ethernet	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX, Connector: RJ-45 x 1	
	Power Switch	Push-Push power on-off switch built in	
	26P Connector	To TOPRH, SRC6A21-26P	To TOPRH, 1981919-1 or 1981921-1
Power	Function Connector	Emergency Switch 1A-2B, Keylock Switch 1A, 3Position enable Switch OFF-ON-OFF(2CH), DOUT(6CH)	
	Input Voltage	24Vdc(20~28Vdc)	
	Power Consumption	20W	
	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)	
	Static Electricity Discharge	Connective discharge from EN61000-4-2: ±4kV	
Structure	Shock Endurance	10G X,Y,Z each direction(for 3 times)	
	Ground Connection	Class 3(100Ω under)	
	Certification	KC, CE, UL/cUL	
	External Dimension(mm)	145 x 119 x 54	148 x 119 x 54
	Weight(kg)	0.3	
	Cooling System	Natural air circulation	
	Case Material	PC(Resistance to flame)	

PACKAGE CONTENTS



DRAWING



TOPRH SERIES

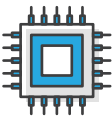
Handy Type Wireless HMI

INTERFACE

- Wi-Fi
- USB HOST 2 PORTS
- USB OTG
- SD CARD



FEATURES



Quad Core CPU

Equipped with a Quad-Core CPU to Support High-Speed Processing



16M Full Color

Bright and Vivid Full-Color Display, Supporting Vector and 3D Libraries



Equipped with High-Performance Wireless Chip

Operable Wirelessly Up to 150m in Open Spaces



Sleek and Ergonomically Designed

Provides a Stable and Comfortable Grip for Handling with Hands and Arms



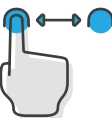
KEY Lock, 3-Position Switch, Function Keys, and Touch Pen

Convenient Operation with 6 Function Keys, Including LED and a Touch Pen



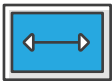
Shock-Resistant Bumper

Silicon Shock-Resistant Bumpers Mounted on All Sides for Safer Usage



Touch Drag Function

Allows Drawing on the Screen to Leave Memos or Drag Down Top Menus Interactively



Supports 1024 x 600 High Resolution

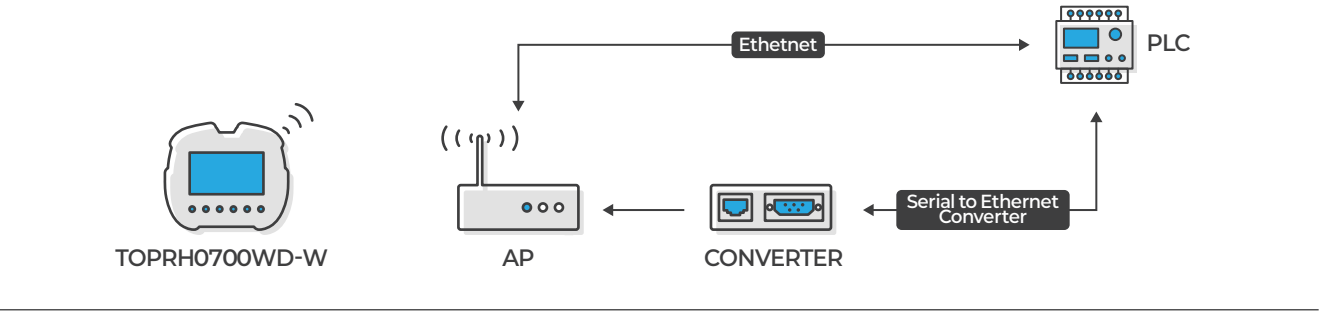
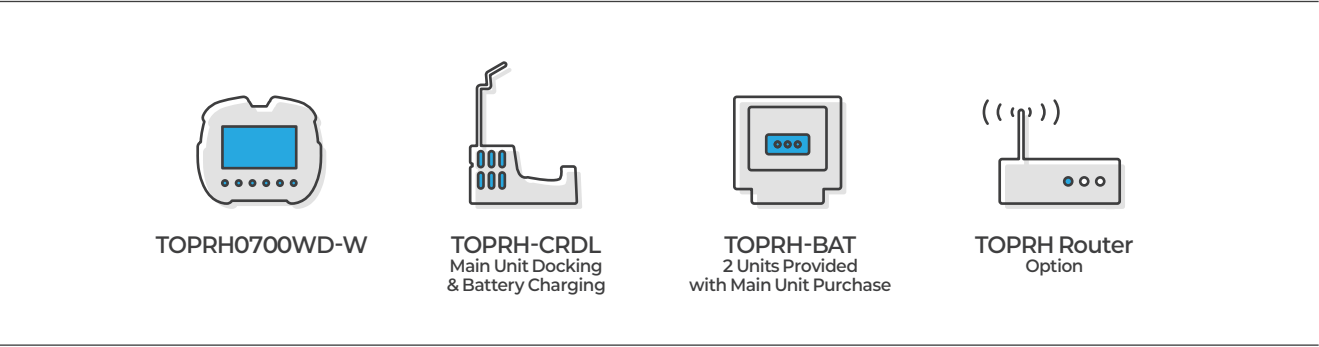
Wide Screen Ratio Allows for a Larger Workspace

TOPRH WIRELESS / CRADLE SPECIFICATIONS

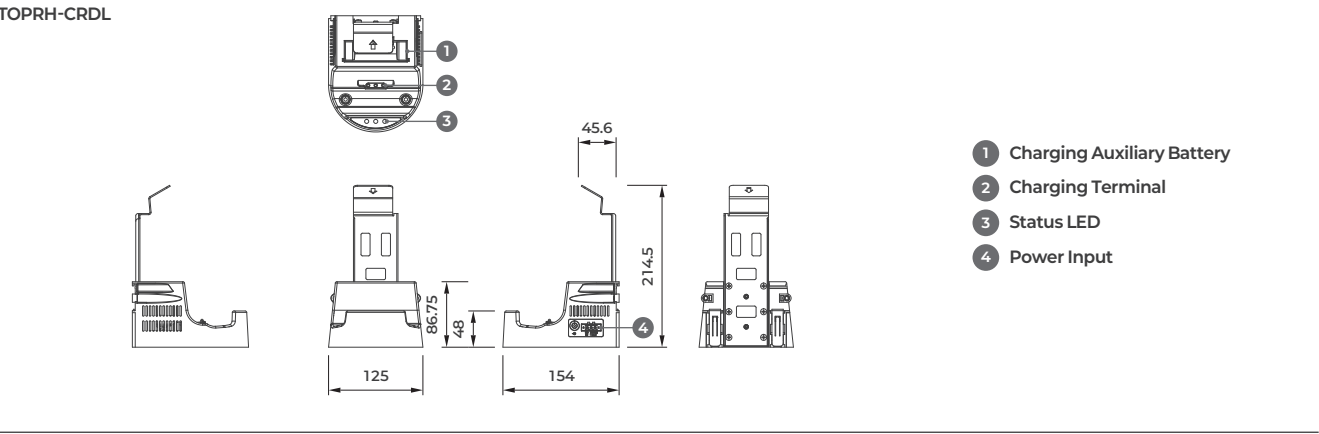
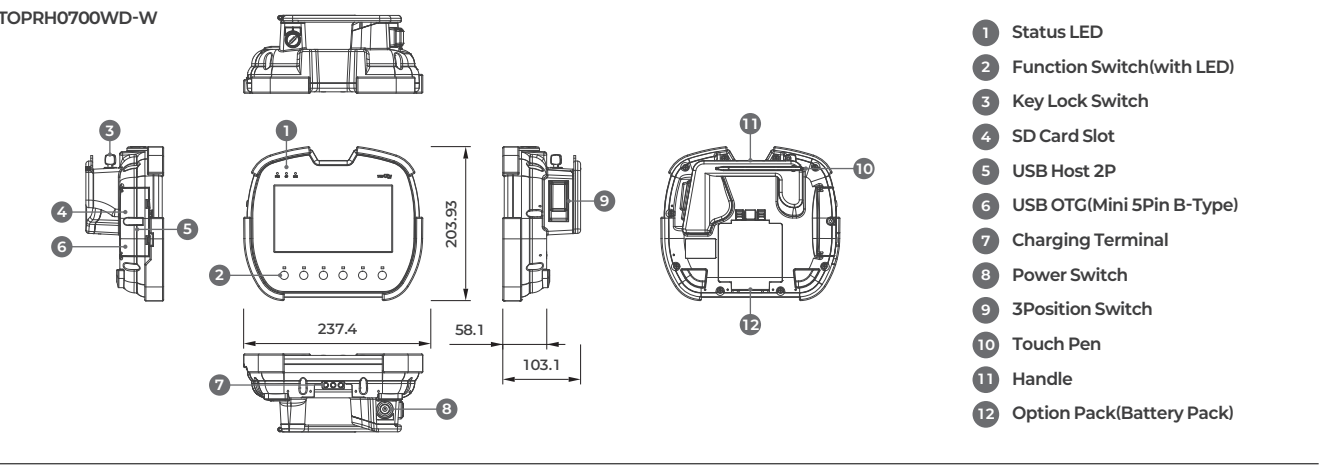
Functional		TOPRH0700WD-W
Display	Display Type	7" TFT Color
	Color	16M Colors
	Display Area(mm)	154.21 x 85.92
	Resolution(dot)	1024 x 600
	Brightness Level	10 Levels(by software)
	Backlight Type	LED
	Backlight Life	50,000 hours
Touch	Touch Type	Analog resistive film
	Resolution(Cell)	1024 x 600
	Touch Life	1 million times or more
Wireless LAN		2.4G: 2.4000GHz ~ 2.4835GHz 5G: 5.150GHz ~ 5.725GHz WLAN Standard: IEEE802.11 a/b/g/n Operation Range Up to 150meters in open space Security: WEP,TKIP,AES,WPA,WPA2
Interface	USB Host	USB 2.0 Compatible, Output 5Vdc/0.5A Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol) Connector: USB Type A x 2
	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 x 1
	SD Card	SD Card Slot x 1, SDHC(MAX 32GB)
	Function Key	6Position with LED
Memory & Others	Machanical Switchs	Keylock Switch 1A, 3Position enable Switch OFF-ON-OFF(1CH)
	Power Switch	Push-Push power on-off switch built in
	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
	Rechargeable & Extractable Battery Pack	2S-2P Li-ion 4Cells 7.2Vdc 6800mAh Charging time 3 hours(Non-operating) Running time: 7 hours with wireless communication
Power	Consumption	20W(In Battery Pack)
	Operation Temperature(℃)	-10 ~ +45
Environment	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)
	Static Electricity Discharge	Connective discharge from EN61000-4-2: ±4kV
	Shock Endurance	10G X,Y,Z each direction(for 3 times)
	Protection Classification	IP65
Structure	Certification	KC, CE, UL/cUL
	External Dimension(mm)	237 x 205 x 103
	Weight(kg)	1.32(Including Battery Pack)
	Cooling System	Natural air circulation
	Case Material	PC(Resistance to flame)

Functional		TOPRH-CRDL
Power	Input Voltage	24Vdc(20~28Vdc)
	Output Voltage	8.4Vdc
	Power Consumption	60W(with Main Body + Extra Battery Pack)
	Voltage Sag	24Vdc, Within 10ms
	Insulation Resistance	500Vdc, 10MΩ
Environment	Status LED	3 LEDs(Main Battery Pack, Power, Sub Battery Pack) Built in
	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)
	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 under)
Structure	Certification	KC, CE
	External Dimension(mm)	214.5 x 125 x 154
	Weight(kg)	0.6
	Cooling System	Natural air circulation
Case Material		PC(Resistance to flame)

PACKAGE CONTENTS



DRAWING



TOPRW-IO SERIES

HMI with Integrated I/O

INTERFACE *Varies by Model.

- SERIAL 2 PORTS
- ETHERNET 1 CHANNEL
- USB HOST
- USB OTG
- SD CARD



FEATURES



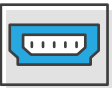
Flexible I/O Support

DIGITAL INPUT 16ch
DIGITAL OUTPUT SINK 16ch
* ANALOG INPUT (Voltage 2ch, Current 2ch)
* ANALOG OUTPUT (Voltage 2ch, Current 2ch)
* RTD 2ch
(* For TOPRW0700WD-IO Model Only)



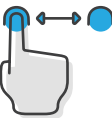
16M Full Color

Bright and Vivid Full-Color Display,
Supporting Vector and 3D Libraries



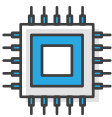
Front OTG USB Port

Supports Convenient Program Transfer in
Transfer Mode and Allows Connection of USB
Devices (Memory, Barcode Scanner, Camera,
etc.) in HOST Mode



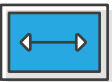
Touch Drag Function

Allows Drawing on the Screen to Leave
Memos or Drag Down Top Menus Interactively



Quad Core CPU

Equipped with a Quad-Core CPU to Support
High-Speed Processing



Supports 800 x 480 High Resolution

7" Wide Screen Ratio for a Larger Workspace



Sleek Integrated Body Design

Premium Integrated Body Offering Elegance
and Lightweight Usability



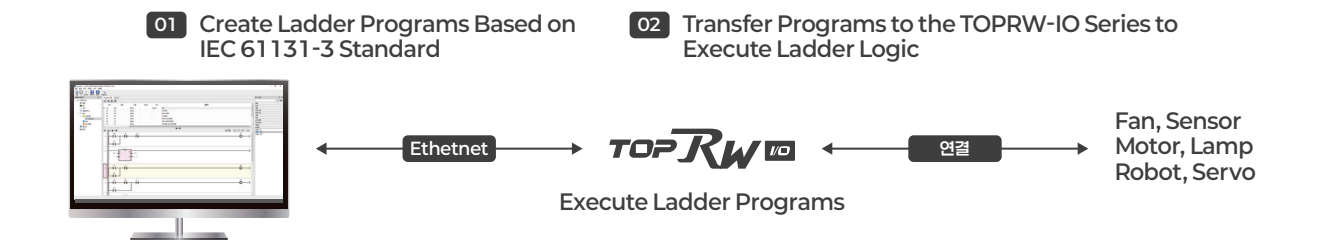
Compatibility with XTOP WIDE Series

Provides the Same Panel Cut as Discontinued
XTOP WIDE Models (7")
Easily Replaces Existing XTOP WIDE Products

TOPRW-IO SPECIFICATIONS

Functional		TOPRW0700WD-IO	TOPRW0710WD-IO
Display	Display Type	7" TFT Color	
	Color	16M Colors	
	Display Area(mm)	154 x 86	
	Resolution(dot)	800 x 480	
	Brightness Level	10 Levels(by software)	
	Backlight Type	LED	
Touch	Backlight Life	50,000 hours	
	Touch Type	Analog resistive film	
	Resolution(Cell)	800 x 480	
	Touch Life	1 million times or more	
Interface	Serial COM1		RS-232C 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
	Ethernet		IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX AUTO MDIX Connector: RJ-45 x 1
	USB Host		USB 2.0 Compatible, Output 5Vdc/0.5A 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 Mini-B(Front) x 1
	SD Card		SD Card Slot x 1, SDHC(MAX 32GB)
	Printer		Roll Printer(EPSON protocol)
	IO Function		Digital Input 16ch, Digital Output 16ch, Analog Input(Voltage 2ch, Current 2ch), Analog Output(Voltage 2ch, Current 2ch), RTD 2ch
	IO Function		Digital Input 16ch, Digital Output 16ch
	IO Function		Digital Input 16ch, Digital Output 16ch
Memory & Others	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	15W	
	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 under)	
	Protection Classification	IP65(Front)	
	Certification	KC, CE	
Structure	Panel Cut(mm)	197 x 127	
	External Dimension(mm)	212 x 145 x 62.5	
	Weight(kg)	0.81	
	Cooling System	Natural air circulation	
	Case Material		Plastic

MuLiN Creator



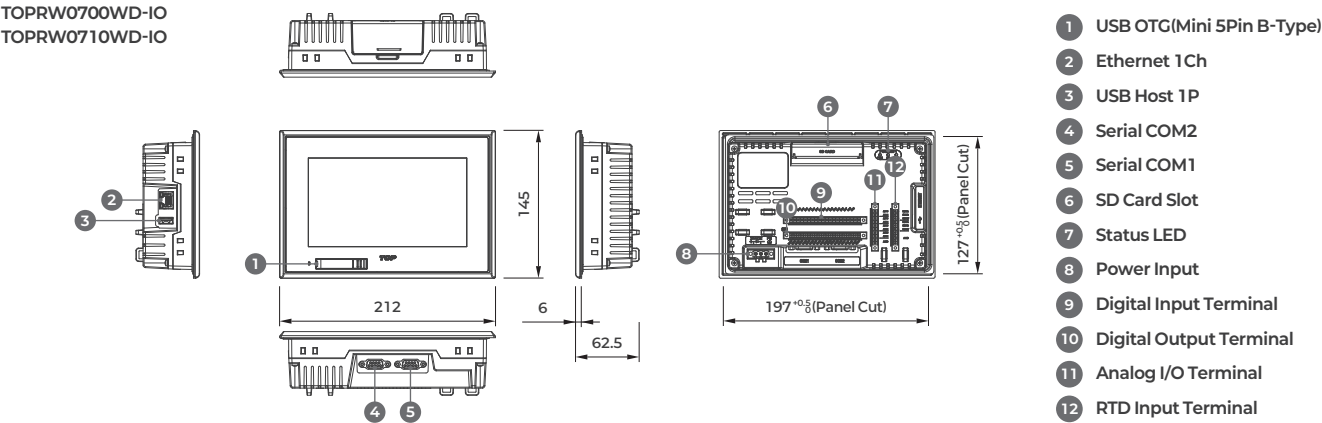
TOPRW-IO SPECIFICATIONS

Functional		Digital Input	Digital Output
Type	Input/Output Type	16 channels Sink and Source Type	16 channels Sink Type
Power	Input/Output Voltage		24Vdc typ. Min. 11.0Vdc ~ Max. 28.8Vdc, On-State Voltage Drop: Max. 0.3Vdc@25℃ Off-State Leakage Current: Max. 50uA
	System Power Dissipation	Max. 70mA	Max. 120mA
	Input Current in On State	Max. 6mA/Channel@28.8Vdc	N/A
	Output Current in On State	N/A	Max. 0.5A/Channel@28.8Vdc
Interface	Max. On-State Voltage Drop	N/A	Max. 0.3Vdc@25℃
	Off-State Leakage Current	N/A	Max. 50uA
	Typ. Input Impedance	Typ. 4.7KΩ	N/A
	Input/Output Signal Delay		Off to On: Max. 0.1ms On to Off: Max. 0.5ms
	Input Filter(Digital)	0.5ms	N/A
Other	Isolation	I/O to Logic: Photocoupler isolation	
	Field Power	Typ. 24Vdc(11.0Vdc ~ 28.8Vdc)	
	Wiring	AWG 26 to 20	
	Pin No.	Removable Terminal Block 20P	

* Analog I/O Is Available on the TOPRW0700WD-IO Model.

	Functional	Temperature Input(RTD)	Analog Input (AIV)	Analog Input (AIC)	Analog Output (AOV)	Analog Output (AOC)	
Type	Input/Output Type	2 Channels Analog RTD Type	2 Channels Analog Voltage Type	2 Channels Analog Current Type	2 Channels Analog Voltage Type	2 Channels Analog Current Type	
	Sensor Type and Input/ Ouput Range	PT100 * -200.0 to +850.0℃	0 ~ 5 Vdc	0 ~ 20mA	0 ~ 5 Vdc	0 ~ 20mA	
Power	System Power Dissipation	Max. 70mA@5.0Vdc	Max. 200mA				
	Field power	N/A	Max. 60mA@24Vdc				
Characteristic	Typ. Input Impedance	N/A	Min. 500KΩ	Max. 250Ω	N/A		
	Load		N/A		Min. 5KΩ	Max. 350Ω	
	Data Format		16bits Integer				
	Resolution	0.0312℃/1bit	16bits, 0.076mV/1bit	16bits, 0.3uA/Bit	16bits, 0.076mV/1bit	16bits, 0.3uA/Bit	
	Conversion Time	Approx. 70ms, All Channel@50Hz	4ms/All Channel				
	Module Error		±0.1% Full Scale@+25℃, ±0.3% Full Scale@0℃, +60℃				
	Isolation		Capacitive isolation				
	Common Type	2COM (1 Common/1 Channel)	2 COM(Single Common)				
	Other	Wiring	AWG 26 to 20				
		Pin No.	Removable Terminal Block 10P(3.5mm pitch)				

DRAWING



TOPRB SERIES

HMI Basic Series

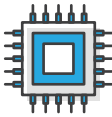
Interface *Varies by model

- SERIAL 3(2) CHANNEL
- ETHERNET 2(1) CHANNEL
- USB HOST

CE UKCA (In progress)



Key Features



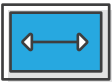
Quad Core CPU

Equipped with a Quad-Core CPU to Support High-Speed Processing



16M Full Color

Bright full-color graphics with vector image library support



1024 x 600, 800 x 480, 480 x 272 High-Resolution Support

10", 7", and 4.3" wide screens for an expanded workspace



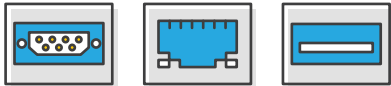
All-in-one body with a sleek design

Premium all-in-one design for an elegant look and easy handling.



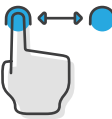
Wide industrial communication protocol

Broad compatibility with 400+ controllers and support for modern industrial networks, including Modbus and EtherNet/IP.



Optimized Interface Configuration

Optimized interface configuration with up to 3 serial channels, 2 Ethernet ports, and 2 USB ports.



Touch Drag Function

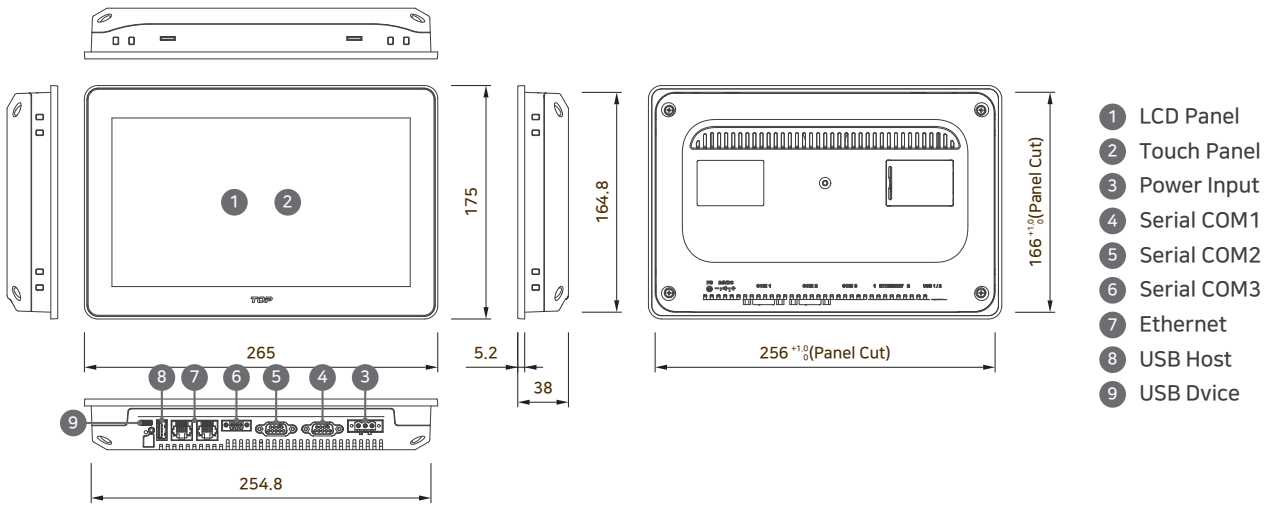
Enables drawing and note-taking via touch drag, and reveals the top menu with a swipe gesture.

TOPRB SPECIFICATIONS

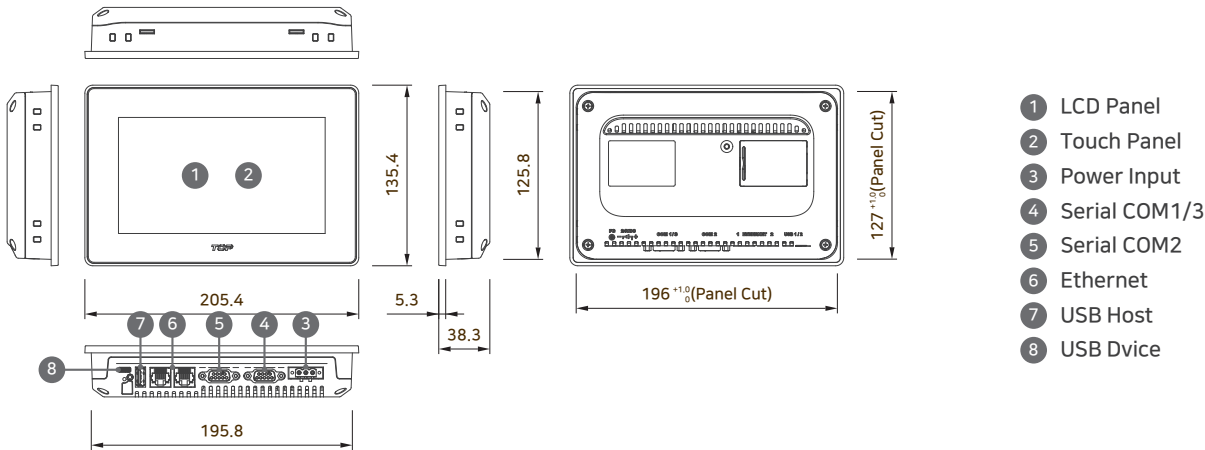
Functional		TOPRB1000WD	TOPRB0700WD	TOPRB0400WD
Display	Display Type	10.1" TFT Color	7" TFT Color	4.3" TFT Color
	Color		16M Colors	
	Display Area(mm)	222.72 x 125.28	154.08 x 85.92	95.04 x 53.86
	Resolution(dot)	1024 x 600	800 x 480	480 x 272
	Brightness Level		10 Levels(by software)	
	Backlight Type		LED	
	Backlight Life		50,000 hours	
Touch	Touch Type		Analog resistive film	
	Resolution(Cell)	1024 x 600	800 x 480	480 x 272
	Touch Life		1 million times or more	
Serial COM1		RS-232C 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 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		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
Interface	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	RS-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	-
	Ethernet	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX 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 1		
	USB Device	USB 2.0 Compatible, Max 5m Connector: USB-C x 1		
	Printer	Roll printer(EPSON protocol): RS-232C		
	Screen memory	128MB		
	Real Time Clock	Built in		
Memory & Others	Status LED	1 LED(Operation) Built in		
	Input Voltage	24Vdc(20 ~ 28Vdc)		
Power	Power Consumption	15W		
	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: 10≤F<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		
	Certification(On Progress)	CE, UKCA		
	Panel Cut(mm)	256 x 166	197 x 127	120 x 91
	External Dimension(mm)	265 x 175 x 38	205.4 x 135.4 x 38.3	126.6 x 97.6 x 38.2
Structure	Weight(kg)	0.8	0.5	0.2
	Cooling System	Natural air circulation		
	Case Material	Plastic		

DRAWING

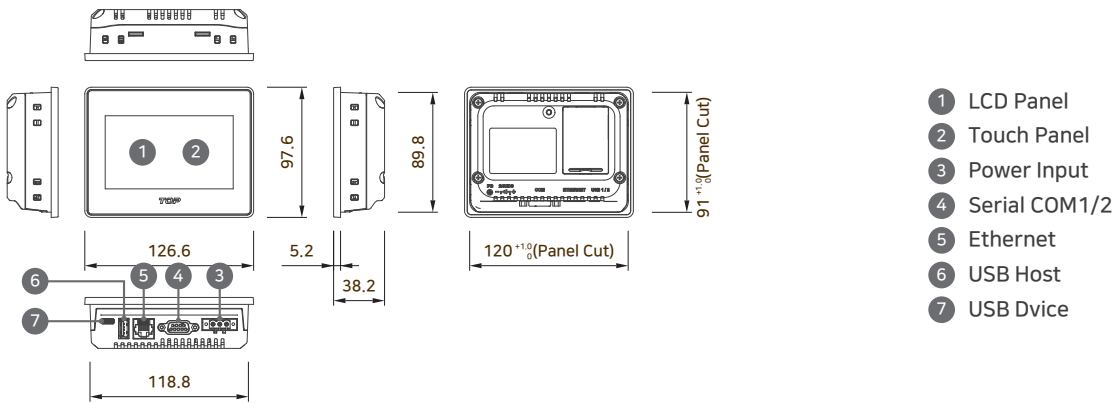
TOPRB1000WD



TOPRB0700WD



TOPRB0400WD



TOPRP SERIES

Box Type HMI

INTERFACE

- SERIAL 2 PORTS
- ETHERNET 2 PORTS
- USB HOST 2 PORTS
- USB OTG
- SD CARD
- HDMI OUT

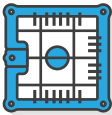


FEATURES



Compact Chassis Frame

Small Size Allows Easy Installation Even in Limited Spaces



Standard DIN Rail / VESA Mounting

Easily Installable Anywhere with Standard DIN Rail
Quickly Attachable to Monitors Using Standard VESA Bracket (* Optional)



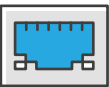
HDMI Output

Conveniently Connect to Various Monitors via HDMI
Compatible with MX On Dedicated Touch Monitors (MDP)



Compatibility with TOP Products

Supports Fast Processing Speeds with Quad-Core CPU
Provides the Same Menus and Operation as TOP



Provides 2 Ethernet Channels

Supports Heterogeneous Networks with Different IPs
Supports VNC (Remote Monitoring / Control) Function



Provides 2 Serial Ports

COM1 / COM2 with DSUB 9-Pin
Supports RS-232C and RS-422/485 Communication



Provides 2 USB Host Ports

Ports for Connecting External Devices Such as Mouse, Keyboard, USB Memory, and Barcode Scanners



OTG USB Port

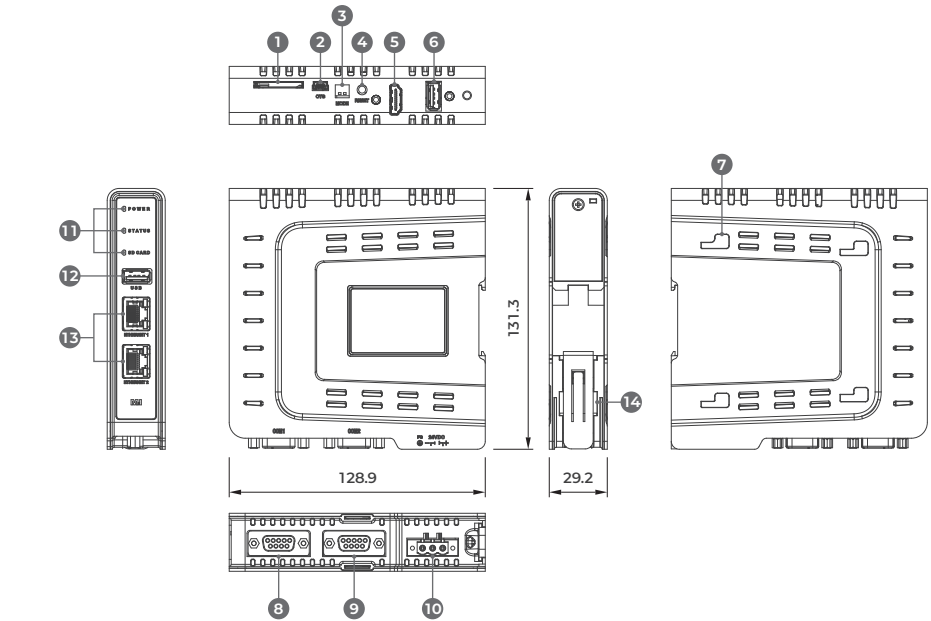
Supports Convenient Program Transfer in Transfer Mode and Allows Connection of USB Devices (Memory, Barcode Scanner, Camera, etc.) in HOST Mode

TOPRP SPECIFICATIONS

Functional		TOPRP1000D
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
	Ethernet	IEEE802.3/IEEE802.3u, 10BASE-T/100BASE-TX 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 2
	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 x 1
	SD Card	SD Card Slot x 1, SDHC(MAX 32GB)
	HDMI Output	HDMI v1.4, HDMI Output, Max. Resolution: 1280x720 at 60Hz Connector: HDMI x 1
	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, SD Card) Built in
Power	Input Voltage	24Vdc(20~28Vdc)
	Power Consumption	10W
	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: 10≤F<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	IP20
Structure	Certification	KC, CE, UL/cUL
	External Dimension(mm)	128.9x131.2x29.2
	Weight(kg)	0.23
	Installation Method	Standard DIN Rail(35mm), VESA
	Cooling System	Natural air circulation
	Case Material	Plastic

DRAWING

TOPRP1000D



- 1

SD Card Socket
- 2

USB OTG
- 3

Mode Switch
- 4

Reset Switch
- 5

HDMI
- 6

USB Host #1
- 7

Vesa Bracket
- 8

Serial COM1
- 9

Serial COM2
- 10

Power Input
- 11

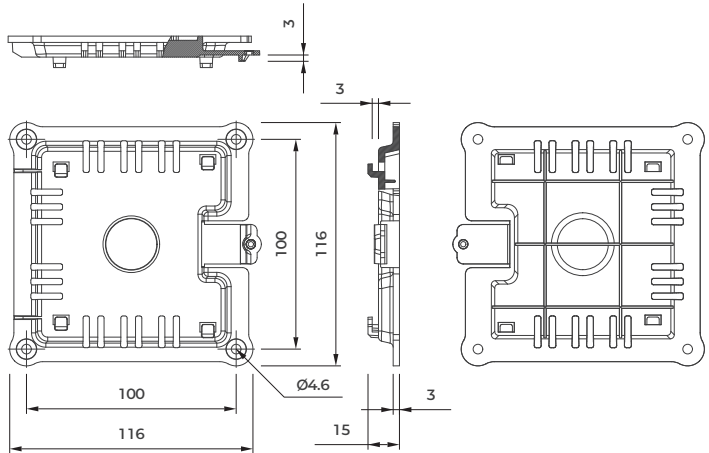
Status LED
- 12

USB Host #2
- 13

Ethernet Port
- 14

DIN Rail

VESA Braket(* Option)

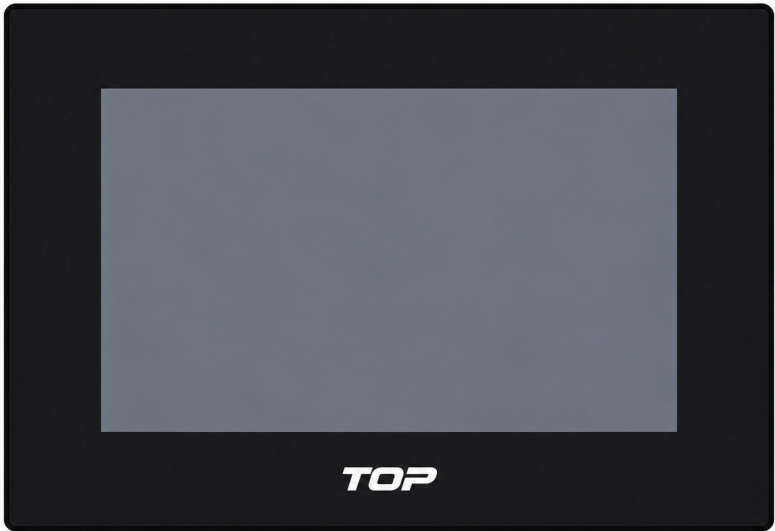


TOPSE SERIES

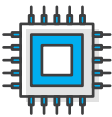
HMI Cost effective type

INTERFACE

- SERIAL 3 PORTS
- ETHERNET 1 CHANNEL
- USB DEVICE
- USB HOST



FEATURES



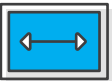
Dual Core CPU

Cost-effective dual core CPU for universal usage



16M Full Color

Bright full color graphics



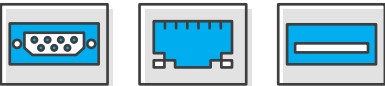
High Resolution

1024 x 600 high resolution in 7 inch screen



All-in-one body with a sleek design

Premium all-in-one design for an elegant look and easy handling



Optimized Interface Configuration

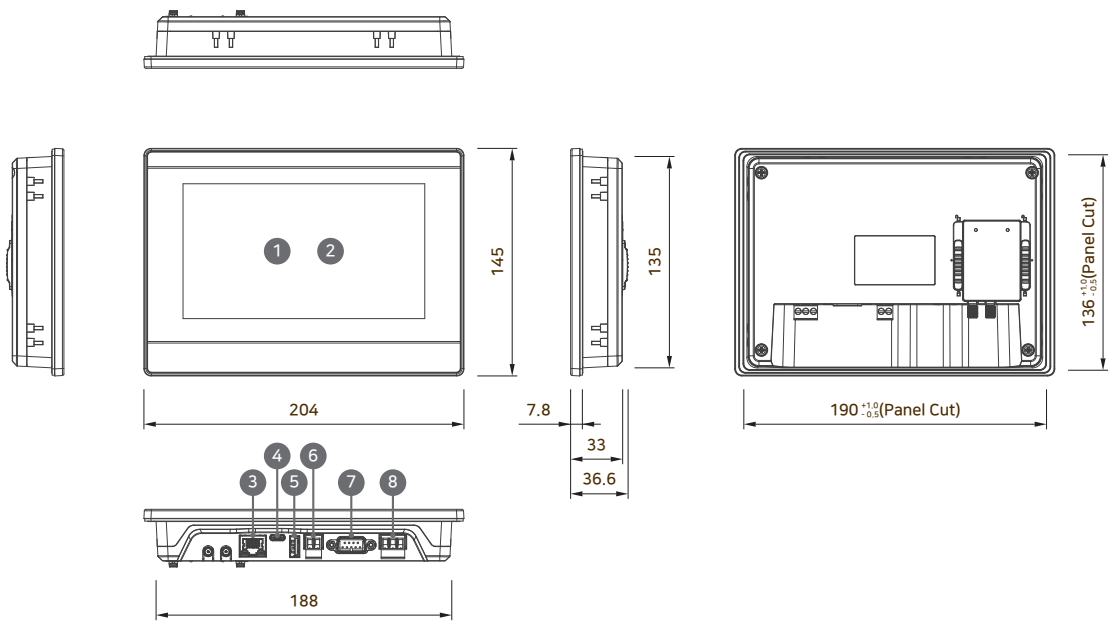
2 serial channels, 1 Ethernet port, 1 USB port

TOPSE SPECIFICATIONS

Functional		TOPSE0700WD
Display	Display Type	7" 16:9 TFT Color LCD
	Color	16M Colors(24 bit)
	Display Area(mm)	154.2144(H) x 85.92(V)
	Resolution(dot)	1024 x 600
	Backlight Type	LED
	Backlight Life	50,000 Hours
Touch	Touch Type	Analog resistive film
	Resolution(cell)	1024 x 600
	Touch Life	100,000 times or more
Interface	Serial COM1	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
	Serial COM2	RS-485 Asynchronous Data bit : 7/8 bits Stop bit : 1/2 bits Parity bit : None/Odd/Even Baud rate : 2400~115.2kbps Connector : 2pin connector
	Serial COM3	RS-232C Asynchronous Data bit : 7/8 bits Stop bit : 1/2 bits Parity bit : None/Odd/Even Baud rate : 2400~115.2kbps Connector : DSUB 9pin
	Ethernet	IEEE802.3i/IEEE802.3u 10BASE-T/100BASE-TX Connector : RJ45 x 1
	USB Host	USB 2.0 Compatible Connector : USB Type A x 1
	USB Device	USB 2.0 Compatible Connector : USB Type C x 1
	Memory	256MB DDR3
	Storage	256MB Flash ROM
	Real Time Clock	Built-in
	Power	Input Voltage : 24Vdc(9~28Vdc) Power Consumption : 10W Voltage Sag : 24Vdc, Within 5ms Insulation Resistance : 500Vdc, 50MΩ
Environment	Operation Temperature(℃)	0 ~ +50
	Storage Temperature(℃)	-20 ~ +60
	Operation Humidity(%RH)	10 ~ 90(No dew)
	Atmosphere	No corrosive gas
	Vibration Endurance	Amplitude: 10≤F < 25Hz(2G) X, Y, Z each direction(for 30 minutes)
	Electrostatic Discharge	Connective discharge from EN61000-6-2:2019 and EN61000-6-4:2019 : ±4kV RoHS : lightning surge ±1kV, group pulse ±2kV, electrostatic contact 4kV, air discharge 8kV
	Shock Endurance	10G X, Y, Z each direction(for 3 times)
	Ground Connection	Class 3(100Ω or less)
	Certification	CE
	Panel Cut(mm)	190 x 136
Structure	External Dimension(mm)	204 x 145 x 36.6
	Weight(g)	476
	Cooling System	Natural air circulation
	Case Material	Plastic

DRAWING

TOPSE0700WD



- 1

LCD Panel
- 2

Touch Panel
- 3

Ethernet
- 4

USB Device
- 5

USB Host
- 6

Serial COM2
- 7

Serial COM1/3
- 8

Power Input