**M2I Corporation**
Man · Machine · Interface

*TOP PRIME*

*TOP PRIME*

**Product Catalog**

M2I Corporation Is an AX·DX-Based Smart Factory Total Solution Platform Company
with Technical Expertise Extending from HMI/SCADA Development
and Manufacturing to Robot Control and Logistics Automation.

TOP PRIME

# CONTENTS

# TOP PRIME LINE-UP



**TOP R** Ex                                    15 12 10

**Premium Series: Aluminum Modular Body with Multimedia Support**
Ex / Non-Ex Premium HMI



**TOP Rw**                                     10 7 5 4

**Wide Series: Larger Display Featuring Only Essential Functions**
Wide 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 Rh** WIRED WIRELESS                          7

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

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



AI — AI
Metaverse
Cloud — MQTT
ERP / MES
DataBase

◁ **Smart Integration with Higher-Level Systems**

**SCADA System** (TOP-VIEW)

◁ **OPC UA / Modbus / Fieldbus**

**HMI System** (TOP)

◁ **Monitoring and Control of Various Field Devices**

PLC / Controller
Remote IO
Motion
Barcode / RFID
Vision
Robot / AMR
IoT Sensor — LoRa

# 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.

# TOP Design Studio

**TOP Design Studio Is Software for Creating and Editing HMI Project Files. It Is Available for Free Download on the M2I Website (m2i.co.kr).**

· **Intuitive UI** – Easy for Everyone
· **Legacy Model Migration** – ATOP / XTOP Compatible
· **Vivid Animations** – Smooth and Lifelike
· **Structured User Training** – Supported at Headquarters and Daegu Sales Office
· **YouTube Training Content** – Accessible Anytime, Anywhere
· **KakaoTalk Technical Support** – Instant Assistance On-Site
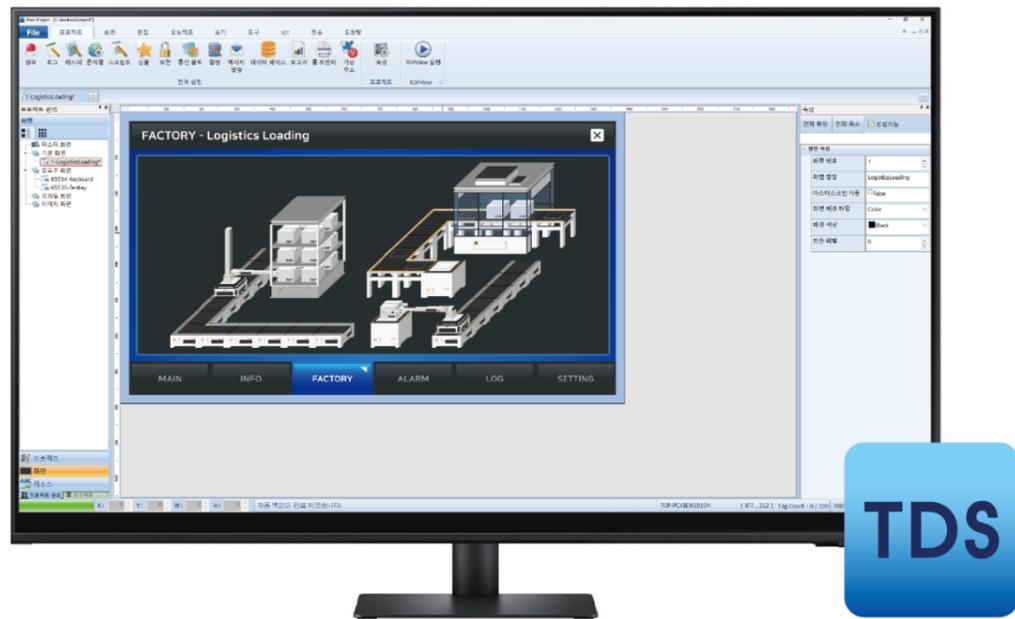


**TOP Design Studio**

# KEY FEATURES

### Function Implementation Integrated via [Effects & Actions]

Regardless of the Object's Shape or Type, Functions Can Be Implemented in a Consistent Manner Using the [Effects & Actions] Properties. Structured as [Condition] → [Effect] → [Action], the Specified Effect or Action Is Executed When the Condition Is Met.

### Offline / Online Virtual Operation

Offline Virtual Operation:
Allows Direct Project Testing in TDS Without TOP or Controller.
Online Virtual Operation:
Enables Simultaneous Project Testing in TDS While Running the Actual Program on a PC-Connected Controller. (2-Hour Limit)

### Continuously Updated Image Library

Offers a Variety of 16M Full-Color Images, Including Vector Images That Maintain Sharp Quality Regardless of Size, and 3D Libraries with Enhanced Depth Perception.

### Optimized Data Analysis

TDS Enables Efficient Data Searching and Monitoring in Tabular Format, and Supports Intuitive Data Analysis Through Various Graphs Such as Trend, Record, Bar, Meter, and Pie Charts.

# JavaScript

### JavaScript Programming Support

Utilize the Widely Used JavaScript to Efficiently Extend Projects in TDS. From Simple Commands to Conditional Statements, Loops, and Functions, Various Programming Constructs Can Be Easily Implemented with Provided Samples.

### Project Interoperability Between HMI and SCADA

TDS Supports Both TOP (HMI) and TOP-VIEW (SCADA) Projects, Allowing Seamless Conversion Between the Two.
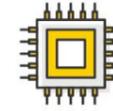
# **TOPR** SERIES

Ex / Non-Ex Premium HMI

**INTERFACE** *Varies by Model.*

- SERIAL 3 PORTS   - ETHERNET 2 CHANNEL   - USB HOST 2 PORTS   - USB OTG   - SD CARD   - OPTION MODULE
- HDMI   - CAMERA   - AUDIO OUT   - VIDEO IN

Ex

Non-Ex

## FEATURES

### Quad Core CPU

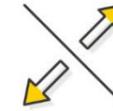Equipped with a Quad-Core CPU to Support High-Speed Processing

### 16M Full Color

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

### Aluminum Frame

Durable Aluminum Body with a Premium Design

### Efficient Modular Body

Combines Display Units of Various Sizes with Selectable Process Units According to Required Specifications

### 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

### T6 Temperature Class Explosion-Proof Certification

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

### Multimedia Features (TOPR20 Model)

Equipped with Front Camera, Audio Output, Video Input, and HDMI Output

TOP R

# TOPR20 SPECIFICATIONS DISPLAY UNIT

| | Functional | TOPRD1520X | TOPRD1220X | TOPRD1020S |
|---|---|---|---|---|
| Display | Display Type | 15" TFT Color | 12.1" TFT Color | 10.4" TFT Color |
| | Color | 16M Colors | | |
| | Display Area(㎜) | 304.1 x 228.1 | 246 x 184.5 | 211.2 x 158.4 |
| | Resolution(dot) | 1024 x 768 | 1024 x 768 | 800 x 600 |
| | Brightness Level | 10 Levels(by software) | | |
| | Backlignt Type | LED | | |
| | Backlight Life | 50,000 hours | | |
| Touch | Touch Type | Analog resistive film | | |
| | Resolution(Cell) | 1024 x 768 | 1024 x 768 | 800 x 600 |
| | Touch Life | 1 million times or more | | |
| Embedded Device | Front Camera | USB UVC Max. Resolution: 640 x 480 | | |
| Structure | Panel Cut(㎜) | 355 x 286 | 306 x 247 | 260 x 202 |
| | External Dimension(㎜) | 370 x 301 x 36.7 | 320 x 261 x 34.2 | 276 x 219.5 x 32.6 |
| | Weight(kg) | 3.58 | 2.44 | 1.88 |

## PROCESS UNIT

| | Functional | TOPRP20D |
|---|---|---|
| Interface | Serial COM1 | RS-232C, RS-422/485 Asynchronous +5Vdc PWR<br>Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even<br>Baud rate: 2400~115.2kbps<br>Connector: DSUB 9pin x 1 |
| | Serial COM2 | RS-232C, RS-422/485 Asynchronous<br>Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even<br>Baud rate: 2400~115.2kbps<br>Connector: DSUB 9pin x 1 |
| | Serial COM3 | RS-485 Asynchronous<br>Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even<br>Baud rate: 2400~115.2kbps<br>Connector: 3.5mm 3pin x 1 |
| | Ethernet | IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX<br>Connector: RJ-45 x 2 |
| | USB Host | USB 2.0 Compatible, Output 5Vdc/0.5A<br>Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)<br>Connector: USB Type A x 2 |
| | USB OTG | USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m<br>Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)<br>Connector: USB Micro-B(Front) x 1 |
| | SD Card | SD Card Slot x 1, SDHC(MAX 32GB) |
| | Option Modules | CAM32 |
| | HDMI Output | HDMI v1.4a, HDMI Output, Max. Resolution: 1920x1080 at 60Hz<br>Connector: HDMI x 1 |
| | Video Input | Decodes NTSC, PAL or SECAM composite video, S-Video<br>Connector: RCA socket x 1 |
| | Audio Output | Stereo output<br>Connector: 3.5mm Audio socket x 1 |
| Memory & Others | 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 |
| | Status LED | 3 LEDs(Power, Operation, Link) Built in |
| Structure | External Dimension(㎜) | 201.6 x 147.6 x 37.3 |
| | Weight(kg) | 0.82 |

# TOPR10 SPECIFICATIONS DISPLAY UNIT

| | Functional | TOPRD1510X | TOPRD1210S | TOPRD1010S |
|---|---|---|---|---|
| Display | Display Type | 15" TFT Color | 12.1" TFT Color | 10.4" TFT Color |
| | Color | 16M Colors | | |
| | Display Area(㎜) | 304.1 x 228.1 | 246 x 184.5 | 211.2 x 158.4 |
| | Resolution(dot) | 1024 x 768 | 800 x 600 | 800 x 600 |
| | Brightness Level | 10 Levels(by software) | | |
| | Backlignt Type | LED | | |
| | Backlight Life | 50,000 hours | | |
| Touch | Touch Type | Analog resistive film | | |
| | Resolution(Cell) | 1024 x 768 | 800 x 600 | 800 x 600 |
| | Touch Life | 1 million times or more | | |
| Structure | Panel Cut(㎜) | 355 x 286 | 306 x 247 | 260 x 202 |
| | External Dimension(㎜) | 370 x 301 x 36.7 | 320 x 261 x 34.2 | 276 x 219.5 x 32.6 |
| | Weight(kg) | 3.58 | 2.44 | 1.88 |

## PROCESS UNIT

| | Functional | TOPRP10D |
|---|---|---|
| Interface | Serial COM1 | RS-232C, RS-422/485 Asynchronous +5Vdc PWR<br>Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even<br>Baud rate: 2400~115.2kbps<br>Connector: DSUB 9pin x 1 |
| | Serial COM2 | RS-232C, RS-422/485 Asynchronous<br>Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even<br>Baud rate: 2400~115.2kbps<br>Connector: DSUB 9pin x 1 |
| | Serial COM3 | RS-485 Asynchronous<br>Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even<br>Baud rate: 2400~115.2kbps<br>Connector: 3.5mm 3pin x 1 |
| | Ethernet | IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX<br>Connector: RJ-45 x 2 |
| | USB Host | USB 2.0 Compatible, Output 5Vdc/0.5A<br>Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)<br>Connector: USB Type A x 2 |
| | USB OTG | USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m<br>Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)<br>Connector: USB Micro-B(Front) x 1 |
| | SD Card | SD Card Slot x 1, SDHC(MAX 32GB) |
| | Option Modules | CAM32 |
| Memory & Others | 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 |
| | Status LED | 3 LEDs(Power, Operation, Link) Built in |
| Structure | External Dimension(㎜) | 201.6 x 147.6 x 37.3 |
| | Weight(kg) | 0.82 |

## COMBINED DISPLAY + PROCESS UNET SPECIFICATIONS (Common)

| | Functional | 15" | 12" | 10" |
|---|---|---|---|---|
| Power | Input Voltage | 24Vdc(20~28Vdc) | | |
| | Power Consumption | 18W | 15W | 15W |
| | Voltage Sag | 24Vdc, Within 10ms | | |
| | Insulation Resistance | 500Vdc, 10㏁ | | |
| 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 1㎲) | | |
| | Static Electricity Discharge | Connective discharge from EN61000-4-2: ±4㎸ | | |
| | Shock Endurance | 10G X,Y,Z each direction(for 3 times) | | |
| | Ground Connection | Class 3(100Ω or less) | | |
| | Protection Classification | IP65(Front) | | |
| | Certification | KC, CE, UL/cUL | | |
| Structure | Weight(kg) | 4.4 | 3.26 | 2.7 |
| | Cooling System | Natural air circulation | | |
| | Case Material | AL(Aluminum) | | |

# TOPR Ex SPECIFICATIONS　　Ex Model

| | Functional | TOPRT1210SD-Ex |
|---|---|---|
| Display | Display Type | 12.1" TFT Color |
| | Color | 16M Colors |
| | Display Area(㎜) | 246x184.5 |
| | Resolution(dot) | 1024x768 |
| | Brightness Level | 10 Levels(by software) |
| | Backlignt Type | LED |
| | Backlight Life | 50,000 hours |
| Touch | Touch Type | Analog resistive film |
| | Resolution(Cell) | 1024x768 |
| | Touch Life | 1 million times or more |
| Embedded Device | Front Camera | USB UVC Max. resolution: 640x480, 4 Adjustable angles: Up 20º, 10º, 0º, Down 10º |
| Interface | Serial COM1 | RS-232C, RS-422/485 Asynchronous +5Vdc PWR<br>Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even<br>Baud rate: 2400~115.2kbps<br>Connector: DSUB 9pin x 1 |
| | Serial COM2 | RS-232C, RS-422/485 Asynchronous<br>Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even<br>Baud rate: 2400~115.2kbps<br>Connector: DSUB 9pin x 1 |
| | Serial COM3 | RS-485 Asynchronous<br>Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even<br>Baud rate: 2400~115.2kbps<br>Connection: 3.5mm 3pin x 1 |
| | Ethernet | IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX<br>Connector: RJ-45 x 2 |
| | USB Host | USB 2.0 Compatible, Output 5Vdc/0.5A<br>Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)<br>Connector: USB Type A x 2 |
| | USB OTG | USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m<br>Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)<br>Connector: USB Micro-B(Front) x 1 |
| | SD Card | SD Card Slot x 1, SDHC(Max. 32GB) |
| | Option Modules | CAM32 |
| | 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 | 24Vdc(20~28Vdc) |
| | Power Consumption | 15W |
| | Voltage Sag | 24Vdc, Within 10ms |
| | Insulation Resistance | 500Vdc, 10㏁ |
| 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) |
| | Static Electricity Discharge | Connective discharge from EN61000-4-2: ±4kW |
| | Shock Endurance | 10G X,Y,Z each direction(for 3 times) |
| | Ground Connection | Class 3(100Ω or less) |
| | Protection Classification | IP65(Front) for KC, CE, UL/cUL in Hazloc, IP54(Front) for CCC, IP4X(Front) for KCs |
| | Certification | KC, CE, UL/cUL in Hazloc, KCs, CCC, IECEx, ATEX |
| Structure | Panel Cut(㎜) | 306x247 |
| | External Dimension(㎜) | 320x261x34.2 |
| | Weight(kg) | 3.26 |
| | Cooling System | Natural air circulation |
| | Case Material | AL(Aluminum) |

# DRAWING



**TOPRD1520X + TOPRP20D**
**TOPRD1510X + TOPRP10D**
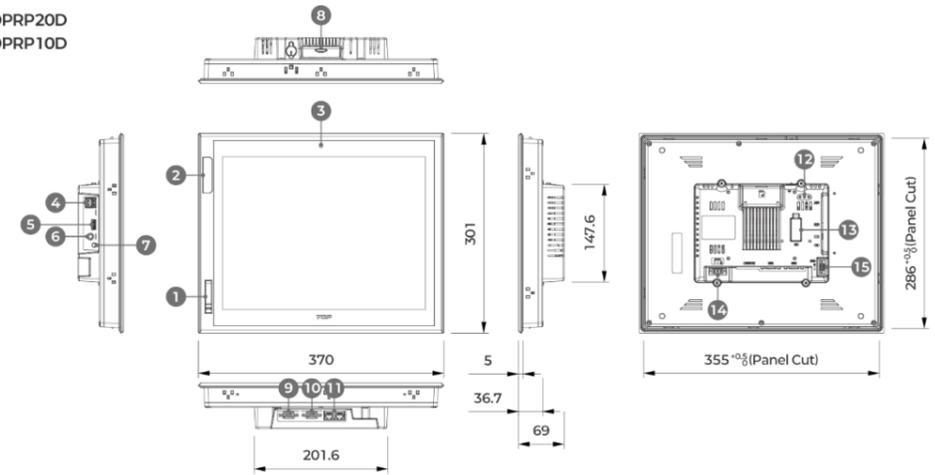
**TOPRD1220X + TOPRP20D**
**TOPRD1210S + TOPRP10D**
**TOPRT1210SD-Ex**
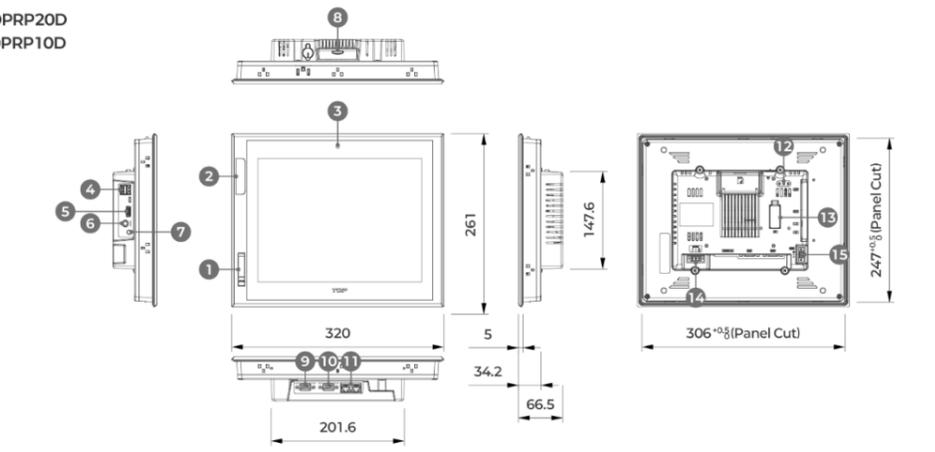
**TOPRD1020S + TOPRP20D**
**TOPRD1010S + TOPRP10D**
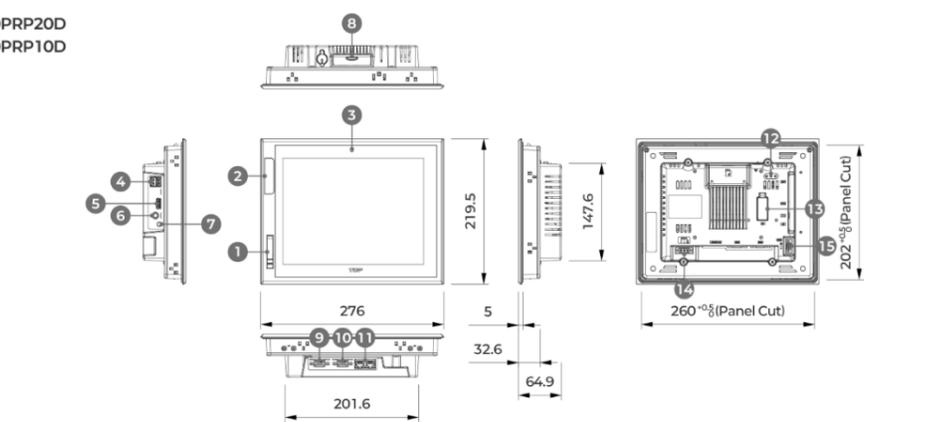
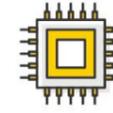| | | | |
|---|---|---|---|
| ① USB OTG(Micro 5Pin B-Type) | ⑤ HDMI Output | ⑨ Serial COM2 | ⑬ Expansion Module Connector |
| ② Power LED | ⑥ Video Input | ⑩ Serial COM1 | ⑭ Power Input |
| ③ Camera | ⑦ Audio Output | ⑪ Ethernet 2Ch | ⑮ Serial COM3 |
| ④ USB Host 2P | ⑧ SD Card Slot | ⑫ Status LED | |

# **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

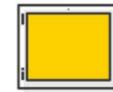Non-Ex

**TOP RX**

## 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(㎜) | 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<br>Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even<br>Baud rate: 2400~115.2kbps<br>Connector: DSUB 9pin x 1 | | | | | | |
| | Serial COM2 | RS-232C, RS-422/485 Asynchronous<br>Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even<br>Baud rate: 2400~115.2kbps<br>Connector: DSUB 9pin x 1 | | | | | | |
| | Serial COM3 | RS-485 Asynchronous<br>Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even<br>Baud rate: 2400~115.2kbps<br>Connector: 3.5mm 3pin x 1 | | | | | Not available | |
| | Ethernet | IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX<br>Connector: RJ-45 x 2 | | | | | IEEE802.3i/IEEE802.3u,<br>10BASE-T/100BASE-TX<br>Connector: RJ-45 x 1 | |
| | USB Host | USB 2.0 Compatible, Output 5Vdc/0.5A<br>Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)<br>Connector: USB Type A x 1 | | | | | | |
| | USB OTG | USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m<br>Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)<br>Connector: USB Mini-B(Front) x 1 | | | | | | |
| | SD Card | SD Card Slot x 1, SDHC(MAX 32GB)<br>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 | | | | | | |
| | Status LED | 3 LEDs(Power, Operation, Link) Built in | | | | | | |
| Power | Input Voltage | 24Vdc(20~28Vdc) | | | | | | |
| | Power Consumption | 18W | 15W | | 15W, Ex model: 12W | | | 12W |
| | Voltage Sag | 24Vdc, Within 10㎳ | | | | | | |
| | Insulation Resistance | 500Vdc, 10㏁ | | | | | | |
| 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) | | | | | | |
| | 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)<br>Explosion proof model: IP54(Front) for CCC, IP4X(Front) for KCs | | | | | | |
| | Certification | General model: KC, CE, UL/cUL<br>Explosion proof model: KC, CE, UL/cUL in Hazloc, KCs, CCC, IECEx, ATEX | | | | | | |
| Structure | Panel Cut(㎜) | 355 x 286 | 306 x 247 | | 260 x 202 | | 222 x 168 | 158 x 126 |
| | External Dimension(㎜) | 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
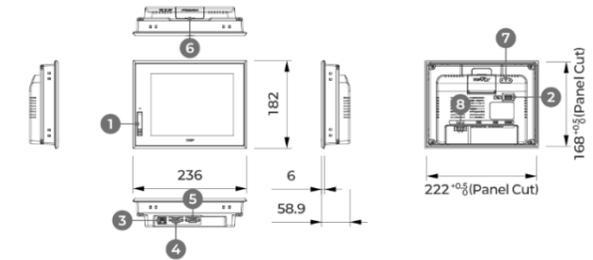


TOPRX1500XD
TOPRX1500XD-Ex
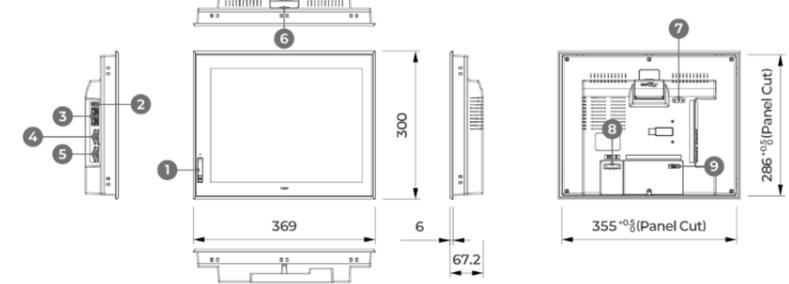
TOPRX1200XD
TOPRX1200SD
TOPRX1200XD-Ex
TOPRX1200SD-Ex
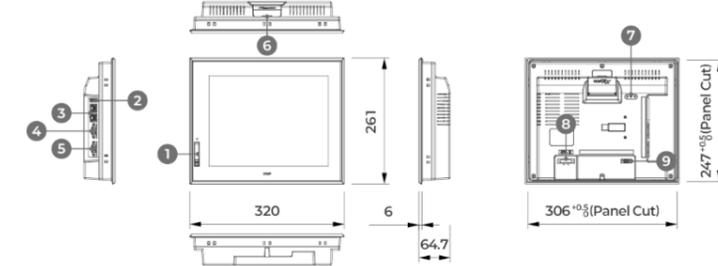
TOPRX1000SD
TOPRX1000VD
TOPRX1000SD-Ex
TOPRX1000VD-Ex
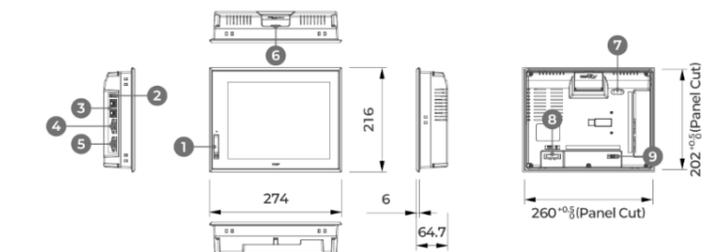
TOPRX0800SD
TOPRX0801SD

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(Option)
⑦ Status LED
⑧ Power Input
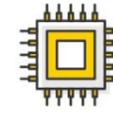⑨ Serial COM3

STANDARD HMI

# **TOPRW** SERIES

Wide HMI

**INTERFACE** *Varies by Model.*

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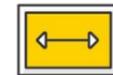- SD CARD(OPTION)

## FEATURES

### Quad Core CPU

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

### 16M Full Color

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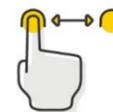Supporting Vector and 3D Libraries

### Supports 1024 x 600, 800 x 480 High Resolution

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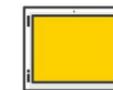Larger Workspace

### 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
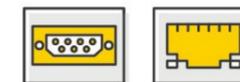Memos or Drag Down Top Menus Interactively

### Sleek Integrated Body Design

Premium Integrated Body Offering Elegance
and Lightweight Usability

### OTG USB Port

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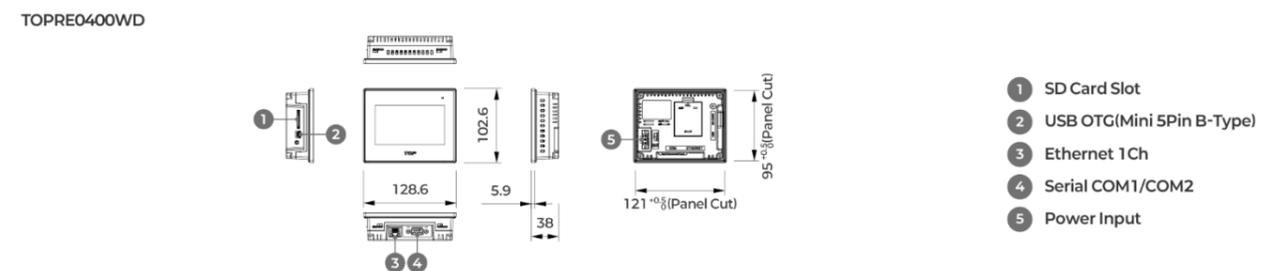Transfer Mode and Allows Connection of USB
Devices (Memory, Barcode Scanner, Camera,
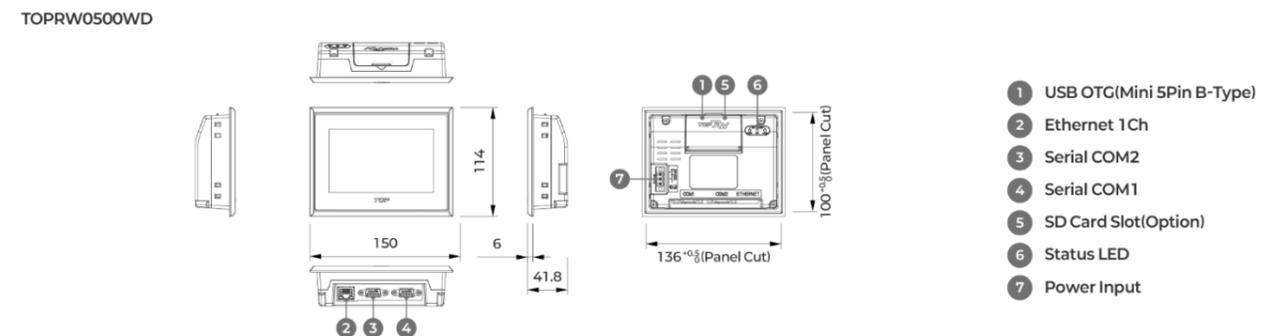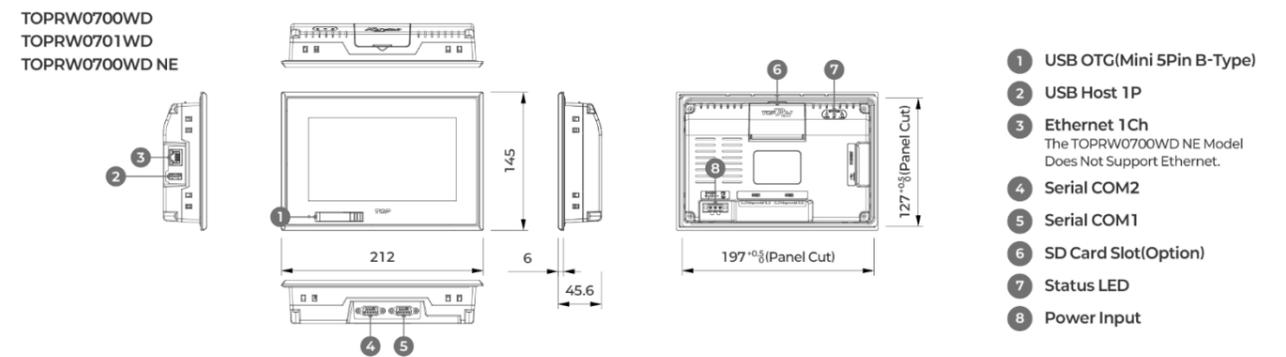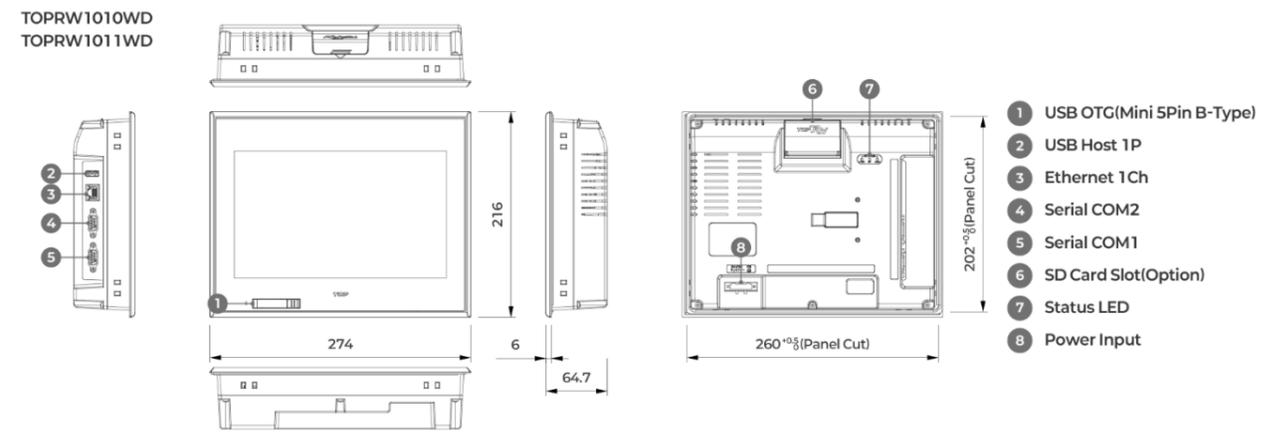etc.) in HOST Mode

### Serial 2 Ports / Ethernet 2 Channels

COM1 / COM2 Serial Ports
Supports Heterogeneous Networks with
Different IPs (Models 10" and Above)

**TOP RW**

## 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(㎜) | 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 | | |
| | 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 | | |
| Interface | 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 | | | |
| | 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 |
| | SD Card | SD Card Slot x 1, SDHC(MAX 32GB) TOPRW1011WD, TOPRW0701WD: SD Card not supported | | | | |
| | Printer | | | Roll Printer(EPSON protocol) | | |
| Memory & Others | Screen Memory | | | 128MB | | 64MB |
| | 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 | | | 24Vdc(20~28Vdc) | | |
| | Power Consumption | 15W | | 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: 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, UL/cUL | | |
| Structure | Panel Cut(㎜) | 260 x 202 | 197 x 127 | | 136 x 100 | 121 x 95 |
| | External Dimension(㎜) | 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

TOPRW1010WD
TOPRW1011WD



1 USB OTG(Mini 5Pin B-Type)
2 USB Host 1P
3 Ethernet 1Ch
4 Serial COM2
5 Serial COM1
6 SD Card Slot(Option)
7 Status LED
8 Power Input

TOPRW0700WD
TOPRW0701WD
TOPRW0700WD NE



1 USB OTG(Mini 5Pin B-Type)
2 USB Host 1P
3 Ethernet 1Ch
The TOPRW0700WD NE Model Does Not Support Ethernet.
4 Serial COM2
5 Serial COM1
6 SD Card Slot(Option)
7 Status LED
8 Power Input

TOPRW0500WD



1 USB OTG(Mini 5Pin B-Type)
2 Ethernet 1Ch
3 Serial COM2
4 Serial COM1
5 SD Card Slot(Option)
6 Status LED
7 Power Input

TOPRE0400WD



1 SD Card Slot
2 USB OTG(Mini 5Pin B-Type)
3 Ethernet 1Ch
4 Serial COM1/COM2
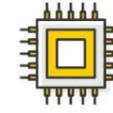5 Power Input

# **TOPRH** SERIES

Handy Type Wired HMI

## INTERFACE

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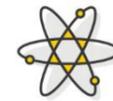- SD CARD



**TOPRH**

## 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
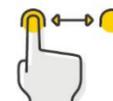
### Function Keys and Touch Pen

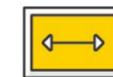Convenient Operation with 6 Function Keys, Including LED and a Touch Pen

### 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
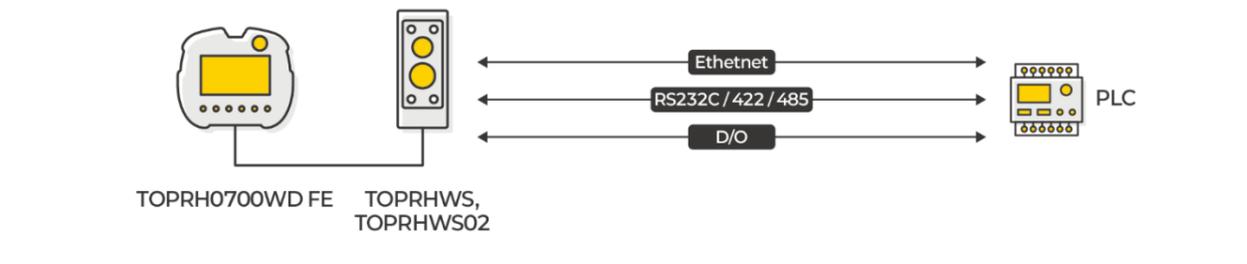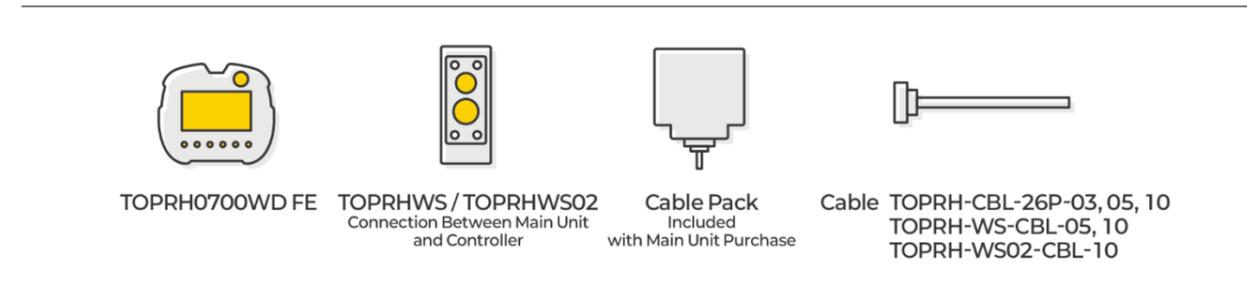
### Supports 1024 x 600 High Resolution

Wide Screen Ratio Allows for a Larger Workspace
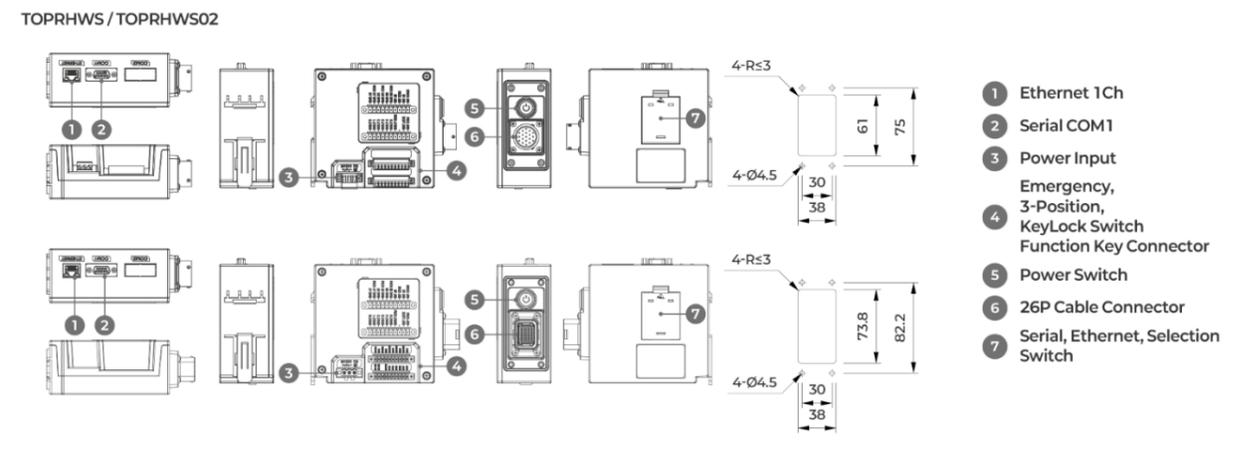
## TOPRH WIRED / TOPRHWS SPECIFICATIONS

| | Functional | TOPRH0700WD FE |
|---|---|---|
| Display | Display Type | 7" TFT Color |
| | Color | 16M Colors |
| | Display Area(㎜) | 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 |
| Interface | Serial COM1 | RS-232C, RS-422/485 Asynchronous<br>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<br>Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)<br>Connector: USB Type A x 2 |
| | USB OTG | USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m<br>Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)<br>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) |
| | Machenical 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 |
| 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 | Consumption | 20W |
| | Voltage Sag | 24Vdc, Within 10ms |
| | Insulation Resistance | 500Vdc, 10㏁ |
| Environment | Operation Temperature(℃) | -10 ~ +45 |
| | 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) |
| | 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 |
| | Certification | KC, CE, UL/cUL |
| Structure | External Dimension(㎜) | 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<br>Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even<br>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 |
| | Function Connector | Emergency Switch 1A-2B, Keylock Switch 1A, 3Position enable Switch OFF-ON-OFF(2CH), DOUT(6CH) | |
| Power | Input Voltage | 24Vdc(20~28Vdc) | |
| | Power Consumption | 20W | |
| | Voltage Sag | 24Vdc, Within 10ms | |
| | Insulation Resistance | 500Vdc, 10㏁ | |
| 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) | |
| | 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) | |
| | Certification | KC, CE, UL/cUL | |
| Structure | External Dimension(㎜) | 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



TOPRH0700WD FE

TOPRHWS / TOPRHWS02
Connection Between Main Unit
and Controller

Cable Pack
Included
with Main Unit Purchase

Cable
TOPRH-CBL-26P-03, 05, 10
TOPRH-WS-CBL-05, 10
TOPRH-WS02-CBL-10



Ethetnet
RS232C / 422 / 485
D/O

PLC

TOPRH0700WD FE

TOPRHWS,
TOPRHWS02

## DRAWING

TOPRH0700WD FE



| ① | Status LED |
|---|---|
| ② | Function Switch(with LED) |
| ③ | Emergency Switch |
| ④ | Key Lock Switch |
| ⑤ | SD Card Slot |
| ⑥ | USB Host 2P |
| ⑦ | USB OTG(Mini 5Pin B-Type) |
| ⑧ | Power Switch |
| ⑨ | 3Position Switch |
| ⑩ | Touch Pen |
| ⑪ | Handle |
| ⑫ | Option Pack(Cable) |

TOPRHWS / TOPRHWS02



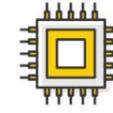| ① | Ethernet 1Ch |
|---|---|
| ② | Serial COM1 |
| ③ | Power Input |
| ④ | Emergency,<br>3-Position,<br>KeyLock Switch<br>Function Key Connector |
| ⑤ | Power Switch |
| ⑥ | 26P Cable Connector |
| ⑦ | Serial, Ethernet, Selection<br>Switch |

HANDY TYPE HMI

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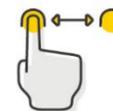
Provides a Stable and Comfortable Grip for Handling with Hands and Arms

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

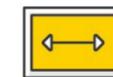Convenient Operation with 6 Function Keys, Including LED and a Touch Pen

### 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(㎜) | 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 |
| Interface | Wireless LAN | 2.4G: 2.4000GHz~2.4835GHz<br>5G: 5.150GHz~5.725GHz<br>WLAN Standard: IEEE802.11 a/b/g/n<br>Operation Range Up to 150meters in open space<br>Security: WEP,TKIP,AES,WPA,WPA2 |
| | USB Host | USB 2.0 Compatible, Output 5Vdc/0.5A<br>Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)<br>Connector: USB Type A x 2 |
| | USB OTG | USB 2.0 Compatible, Output 5Vdc/0.5A, Max 3m<br>Support: USB Storage, USB Barcode Scanner(Standard Keyboard Protocol)<br>Connector: USB Mini-B x 1 |
| | SD Card | SD Card Slot x 1, SDHC(MAX 32GB) |
| | Function Key | 6Position with LED |
| | Machenical Switchs | Keylock Switch 1A, 3Position enable Switch OFF-ON-OFF(1CH) |
| | Power Switch | Push-Push power on-off switch built in |
| 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 |
| Battery | Rechargable & Extractable Battery Pack | 2S-2P Li-ion 4Cells 7.2Vdc 6800mAh<br>Charging time 3 hours(Non-operating)<br>Running time: 7 hours with wireless communication |
| Power | Consumption | 20W(In Battery Pack) |
| Environment | Operation Temperature(℃) | -10 ~ +45 |
| | 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) |
| | Static Electricity Discharge | Connective discharge from EN61000-4-2: ±4kV |
| | Shock Endurance | 10G X,Y,Z each direction(for 3 times) |
| | Protection Classification | IP65 |
| | Certification | KC, CE, UL/cUL |
| Structure | External Dimension(㎜) | 237 x 205 x 103 |
| | Weight(kg) | 1.32(Including Battery Pack) |
| | Cooling System | Natural air circulation |
| | Case Material | PC(Resistance to flame) |

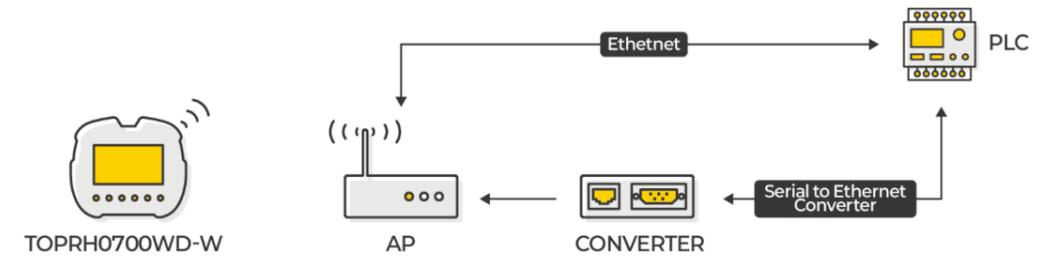| | Functional | TOPRH-CRDL |
|---|---|---|
| Power | Input Voltage | 24Vdc(20~28Vdc) |
| | Output Voltage | 8.4Vdc |
| | Power Consumption | 60W(with Main Body + Extra Battery Pack) |
| | Voltage Sag | 24Vdc, Within 10ms |
| | Insulation Resistance | 500Vdc, 10㏁ |
| | Status LED | 3 LEDs(Main Battery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

# PACKAGE CONTENTS



TOPRH0700WD-W
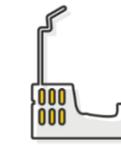
TOPRH-CRDL
Main Unit Docking & Battery Charging
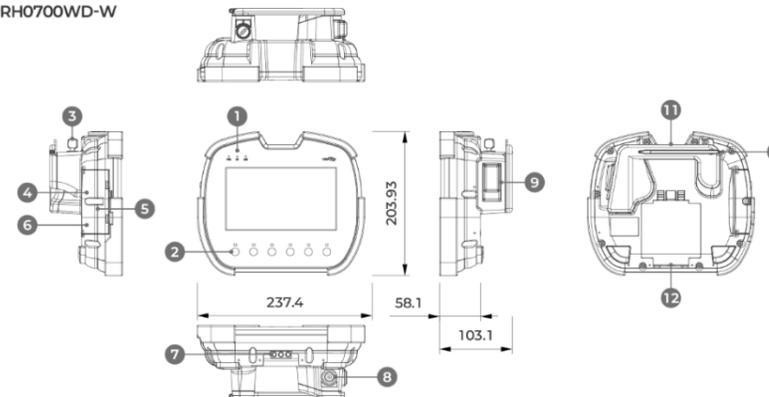
TOPRH-BAT
2 Units Provided with Main Unit Purchase
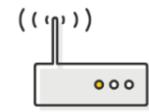
TOPRH Router
Option



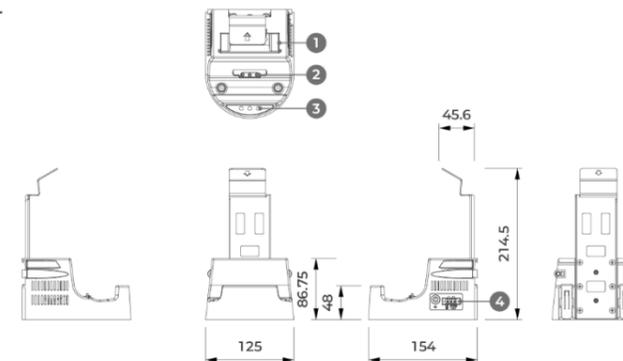# DRAWING

TOPRH0700WD-W



1 Status LED
2 Function Switch(With LED)
3 Key Lock Switch
4 SD Card Slot
5 USB Host 2P
6 USB OTG(Mini 5Pin B-Type)
7 Charging Terminal
8 Power Switch
9 3Position Switch
10 Touch Pen
11 Handle
12 Option Pack(Battery Pack)

TOPRH-CRDL



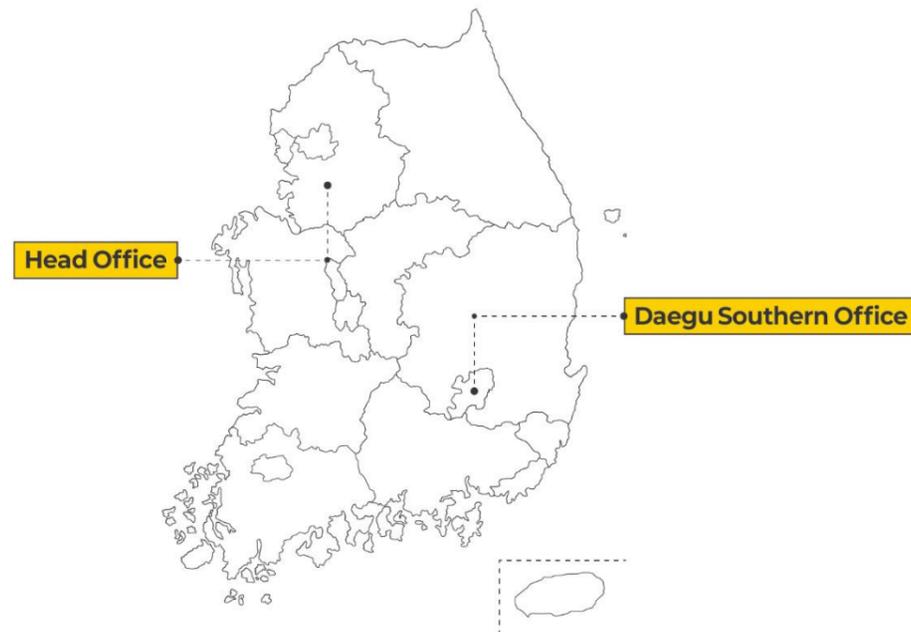1 Charging Auxiliary Battery
2 Charging Terminal
3 Status LED
4 Power Input

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