

TOPRN SERIES

Open Frame HMI

INTERFACE *Varies by Model.

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



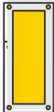
TOPRN

FEATURES



Open Frame Design Allows Flexible External Design Implementation

Supports Clean Embedded Installation Without Exposed Frames Choice of Standard Mount or Flat Mount Options Mounting Holes Provided for Easy and Quick Assembly and Installation Supports Both Landscape and Portrait Screen Orientations



Provides Compact and Flexible Sizes

Slim Design Suitable for Confined Spaces Customizable Sizes Tailored to Industry-Specific Equipment Specifications



Flat Operation Surface for a Convenient User Environment

Maintains Cleanliness by Preventing Accumulation of Dust or Foreign Materials Front Sheet Attachment Ensures Water- and Dust-Resistance Stable Operation Even in Wet Environments



Optimized Interface Configuration

Provides Sufficient Connectivity and Scalability Even in Complex Industrial Environments Equipped with Serial Ports, Ethernet Channels, and USB



High-Performance Hardware Specifications

Equipped with a Quad-Core CPU for Fast Processing Speeds Supports 16M Full-Color Display and Vector Image Library Provides Intuitive UI Operation with Touch- Drag and Memo Functions



Largest Collection of Industrial Communication Protocols

Provides Extensive Compatibility with Over 400 Controllers Supports Latest Industrial Networks Such as Modbus and EtherNet/IP

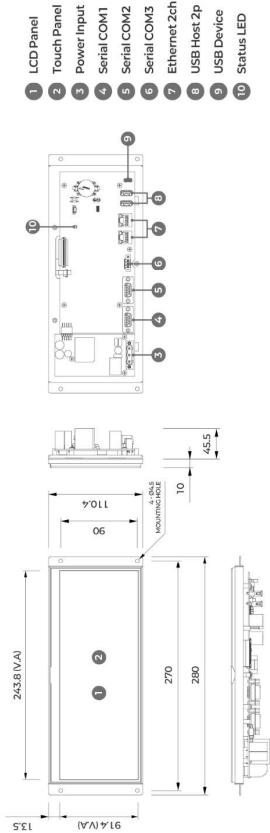
TOPRN SPECIFICATIONS

Functional		TOPRN1000UD	TOPRN0700WD	TOPRN0600WD
Display	Display Type	10.25" TFT Color	7" TFT Color	4.3" TFT Color
	Color		16M Colors	
	Display Area(mm)	243.84 x 91.44	154.08 x 85.92	95.04 x 53.86
	Resolution(dot)	1280 x 480	800 x 480	480 x 272
	Brightness Level		10 Levels(by software)	
Touch	Backlight Type		LED	
	Touch Type		50,000 hours	
	Resolution(Cell)	1280 x 480	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: 2400~115.2kpbs Connector: DSUB 9pin x 1	RS-232C Asynchronous Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kpbs Connector: DSUB 9pin x 1	RS-232C Asynchronous Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kpbs Connector: 12pin Connector
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: 2400~115.2kpbs 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: 2400~115.2kpbs 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: 2400~115.2kpbs Connector: 12pin Connector
Serial COM3		RS-485 Asynchronous Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kpbs 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: 2400~115.2kpbs Connector: DSUB 9pin x 1	RS-485 Asynchronous Data bit: 7/8 bits, Stop bit: 1/2 bits, Parity bit: None/Odd/Even Baud rate: 2400~115.2kpbs Connector: 12pin Connector
Ethernet		IEEE802.3/IEEE802.3u, 10BASE-T/10BASE-TX Connector: RJ45 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 Device		USB 2.0 Compatible, Max 5m Connector: USB-C, x 1		
Printer			Roll printer(EPSON protocol)	
Memory & Others	Screen memory		128MB	
	Backup memory		Built in	
Power	Backup Period		Permanent	
	Real Time Clock		Built in	
Status LED			1 LED(Operation) Built in	
			24Vdc(20 ~ 28Vdc)	
Input Voltage			15W	
			24Vdc, Within 10ms	
Voltage Sag			500Vdc, 1000	
			-10 ~ +50	
Insulation Resistance			-20 ~ +60	
			0 ~ 90(No dew)	
Operation Temperature(°C)			No corrosive gas	
			Amplitude: 10cF < 25Hz(2G) X, Y, Z each direction(for 30 minutes)	
Storage Temperature(°C)			10000ppPulse width 1μs	
			Connective discharge from EN61000-4-2: ±4kV	
Operation Humidity(%RH)			10G X, Y, Z each direction(for 3 times)	
			Class 3(1000 or less)	
Atmosphere			KC, CE, UL/CUL	
Vibration Endurance				
Noise Immunity				
Electrostatic Discharge				
Shock Endurance				
Ground Connection				
Certification				
Panel Cut(mm)		TBD	155 x 87	97.5 x 55
		TBD	200.4 x 122.4 x 32.5	131 x 81 x 19.8
External Dimension(mm)		TBD		0.3
Weight(kg)				
Cooling System			Natural air circulation	
Case Material			Plastic	

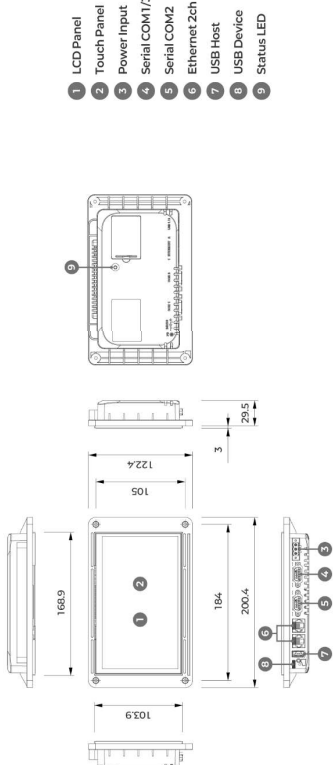
* Detailed Information on Panel Fabrication Can Be Found In the Hardware Manual.

DRAWING

TOPRN1000UD



TOPRN0700WD



TOPRN0600WD

