TPD-703

7" Touch HMI Device with
1 × RS-485, 1 × RS-232,
Ethernet (PoE), 16 MB Flash

TPD-703-64

7" Touch HMI Device with
1 × RS-485, 1 × RS-232,
Ethernet (PoE), 64 MB Flash

Features

- High-resolution color touch screen
- RTC (Real Time Clock)
- Buzzer
- PoE (Power over Ethernet)
- Free HMIWorks development tool
- Support C language and Ladder Designer
- Modbus TCP/RTU protocols
- Support the custom communication protocol (C language)
- Extensive Sample Programs (e.g., Heat Hazard Monitoring)
- Operating Temperature: -10 ~ 60 °C

Introduction

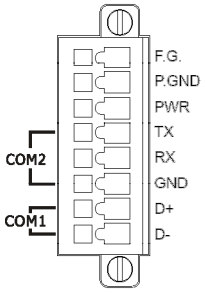
The **TouchPAD TPD 7" Series**, TPD-703/TPD-703-64, is a series of touch HMI and designed for building and home automation. TPD 7 inch series is equipped with high resolution TFT color touch screen and is seamlessly integrated with rich I/O modules and presents beautiful, flexible and user-defined picture frame. In short, it is the best choice to upgrade the mechanical switch to intelligent control pads.

For PLC users, HMIWorks provides Ladder Designer, and for IT users, C language environment is provided. Especially, it only takes no more than 30 minutes to learn how to create an application program of TPD-series devices when using Ladder Designer.

Specifications

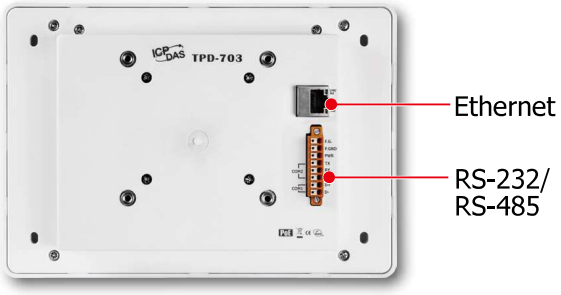
Models	TPD-703	TPD-703-64
Main Unit		
CPU	32-bit RISC CPU	
Storage	16 MB SDRAM/16 MB Flash	64 MB SDRAM/64 MB Flash
Real Time Clock	Yes	
Display		
Type	LCD 7" TFT (Resolution 800 x 480, 65535 colors), defective pixels <= 3	
Backlight Life	20,000 hours	
Brightness	250 cd/m2	400 cd/m2
Touch Panel	4-wire, analog resistive; Light Transmission: 80%	
COM Ports		
Ports	1 x RS-485 (including Self-Tuner) ; Non-isolation 1 x RS-232 (3-pin) ; Non-isolation	
HMI		
Buzzer	Ye	
Rotary Switch	Ye	
Reset Button	Ye	
Ethernet		
Ports	RJ-45 x 1, 10/100 Base-TX	
Power		
Consumption	3.6 W	
Powered from PoE	IEEE 802.3af, Class1 (48 V)	
Powered from Terminal Block	+12 ~ 48 VDC	
Mechanical		
Dimensions (mm)	217 mm x 153 mm x 33 mm	
Installation	Wall Mounting	
Ingress Protection Rating	Front Panel: IP40	
Environmental		
Operating Temperature	-10 ~ +60°C	
Storage Temperature	-20 ~ +70°C	
Humidity	10 ~ 90% RH, Non-condensing	

Pin Assignments

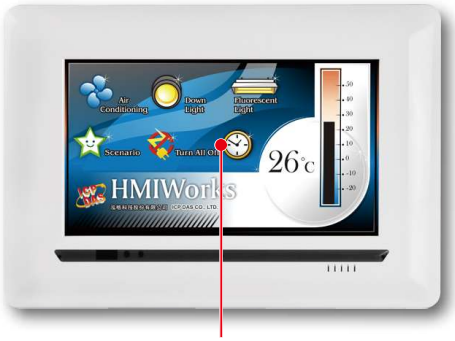


Appearance

Rear View



Front View

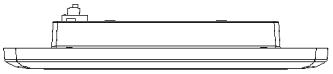


Front View

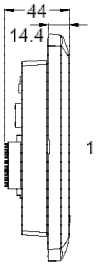
Installation

External Wall Box (EWB-T70)	Outlet Box (OB170)

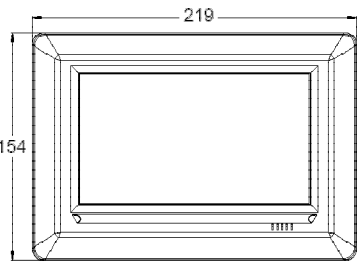
Dimensions (Units: mm)



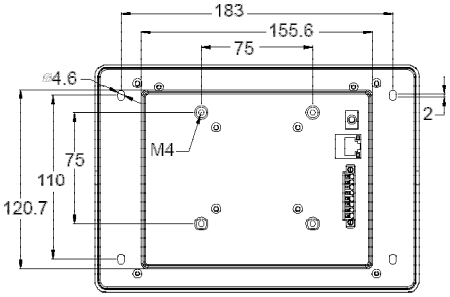
Top View



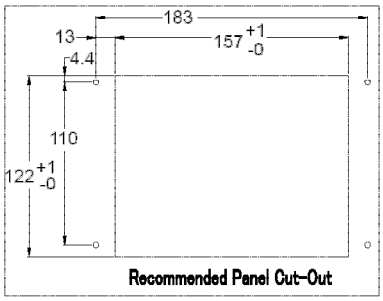
Left View



Front View



Rear View



Wall Mounting

Ordering Information

TPD-703 CR	7" Touch HMI Device with 1 x RS-485, 1 x RS-232, Ethernet (PoE), RTC, 16 MB Flash (RoHS)
TPD-703-64 CR	7" Touch HMI Device with 1 x RS-485, 1 x RS-232, Ethernet (PoE), RTC, 64 MB Flash (RoHS)

Accessories

	NS-208PSE CR	Unmanaged Industrial PoE (Power over Ethernet) Ethernet Switch (RoHS)
	MDR-60-24 CR	24 VDC/2.5 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)
	EWB-T70 CR	External Wall Box for TPD-703/TPD-703-64 Devices
	OB170 CR	Outlet Box for TPD-703/TPD-703-64 Devices