

TPD-280-W/TPD-280U-W

TPD-283-W/TPD-283U-W

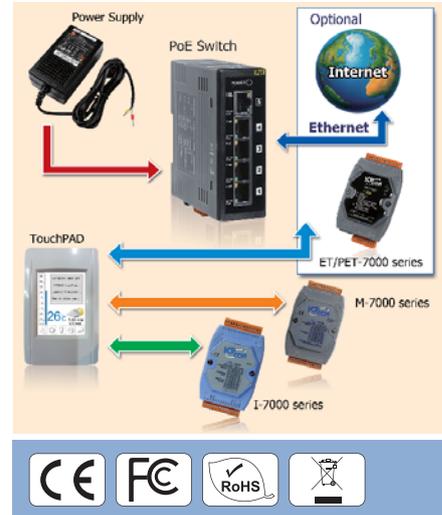
Introduction

TPD-28X-W, TouchPAD, is a series of tiny touch HMI and designed for building and home automation. TPD-28X-W is equipped with high resolution TFT color touch screen and fits in with regular electrical wall-mount outlet. Besides, it 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. Moreover, we provide redundant solutions in our PoE version, TPD-283, of TPD-series HMI devices. With all the features provided, TPD-series touch HMI Devices might be the most cost effective HMI Device that has been found.

Features

- Excellent C/P ratio (cost/performance)
- High resolution color touch screen
- PoE, Power over Ethernet
- RS-485 (including Self-Tuner)
- RTC, Real Time Clock (RTC)
- WYSIWYG (What You See Is What You Get) GUI design
- Free development tool, HMIWorks
- Support the popular C programming language
- Support Ladder Designer
- Modbus TCP protocol to remotely control I/O modules and integrate with SCADA software
- ESD Protection: 4 kV
- Operating temperature: -20 ~ 70°C

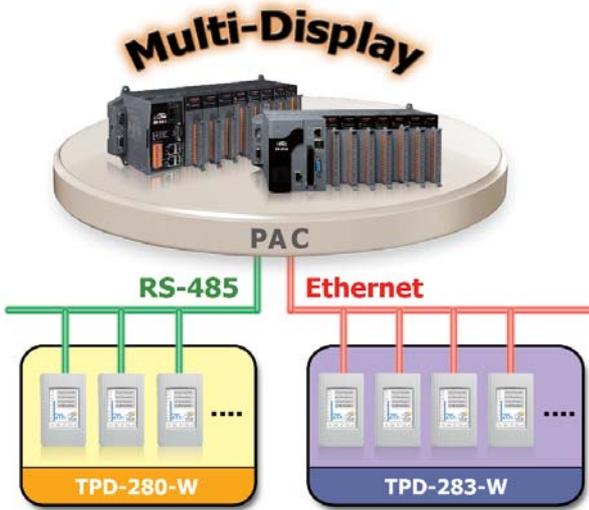


Applications

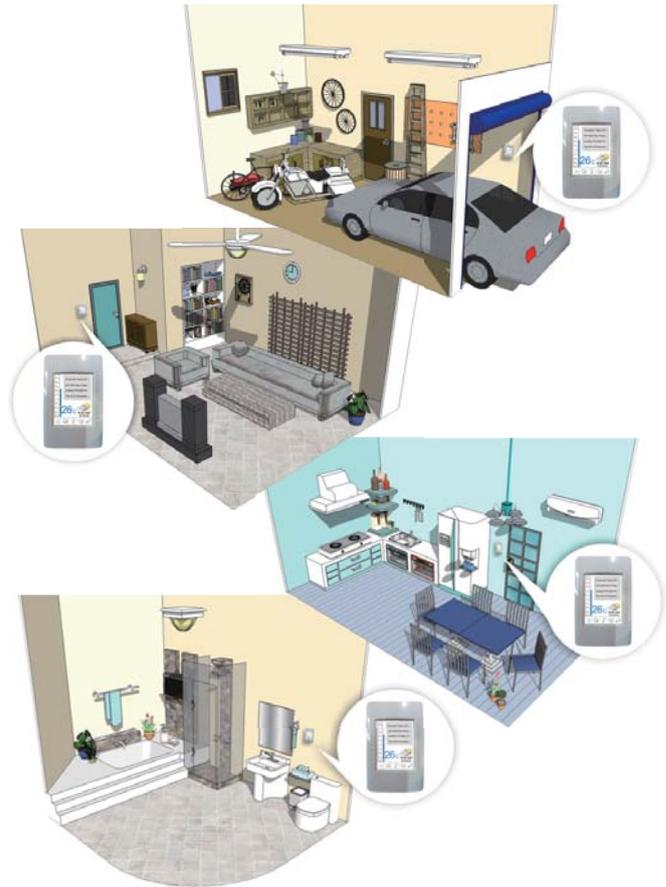


Applications

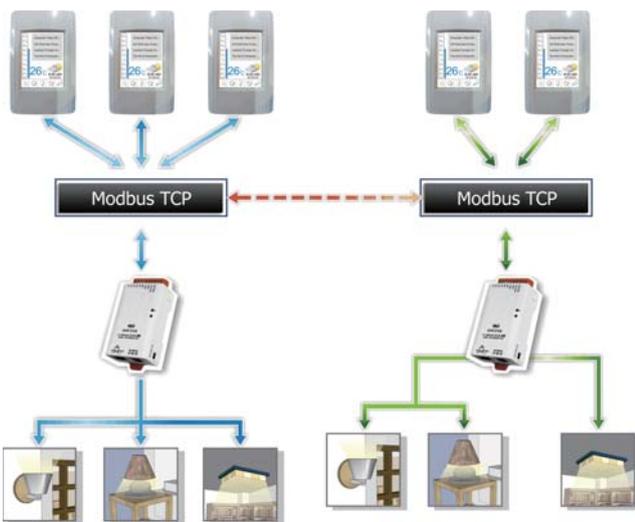
Multi-Display



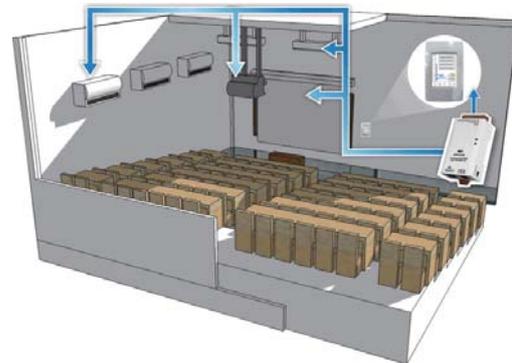
TouchPAD Anywhere



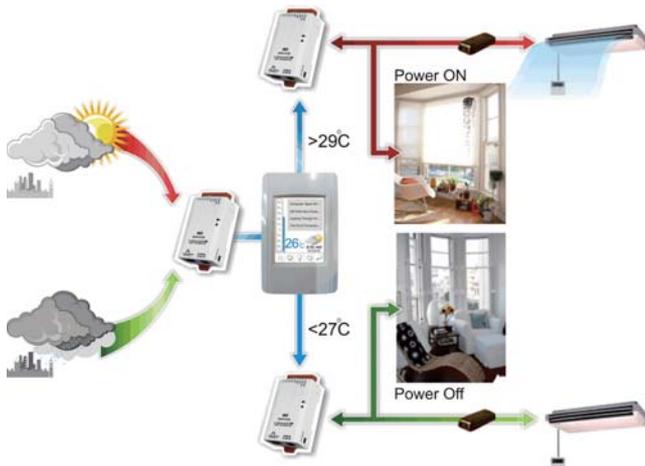
Single-way, Two-way, Multi-way Switches Example



Classroom Automation Example



Temperature Control Example



Intelligent Building Example

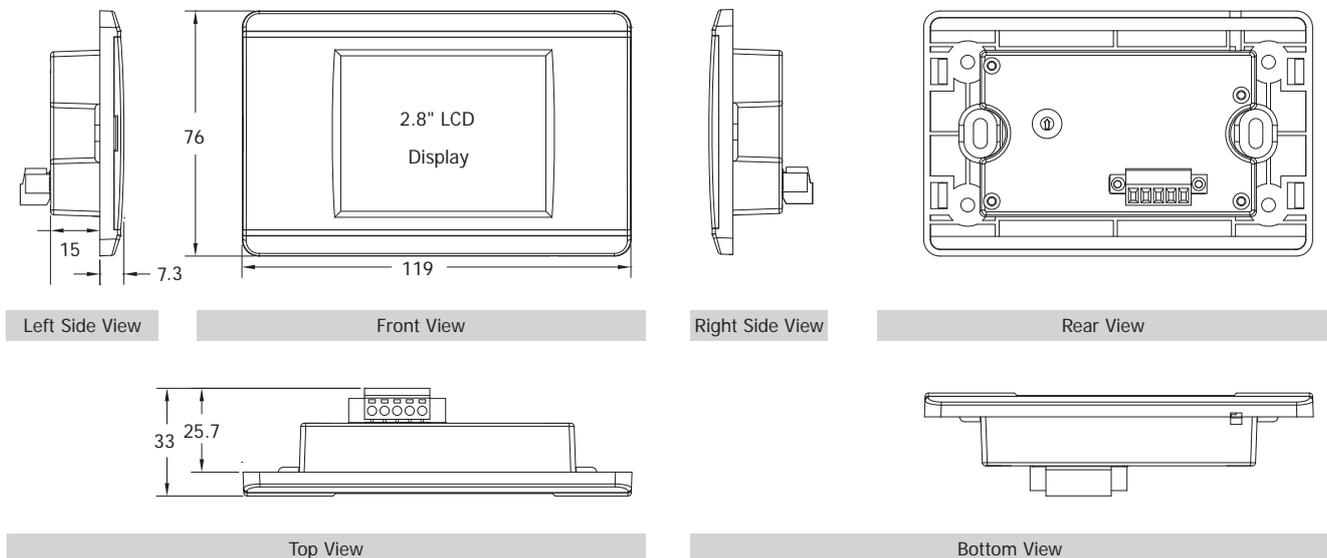


Specifications

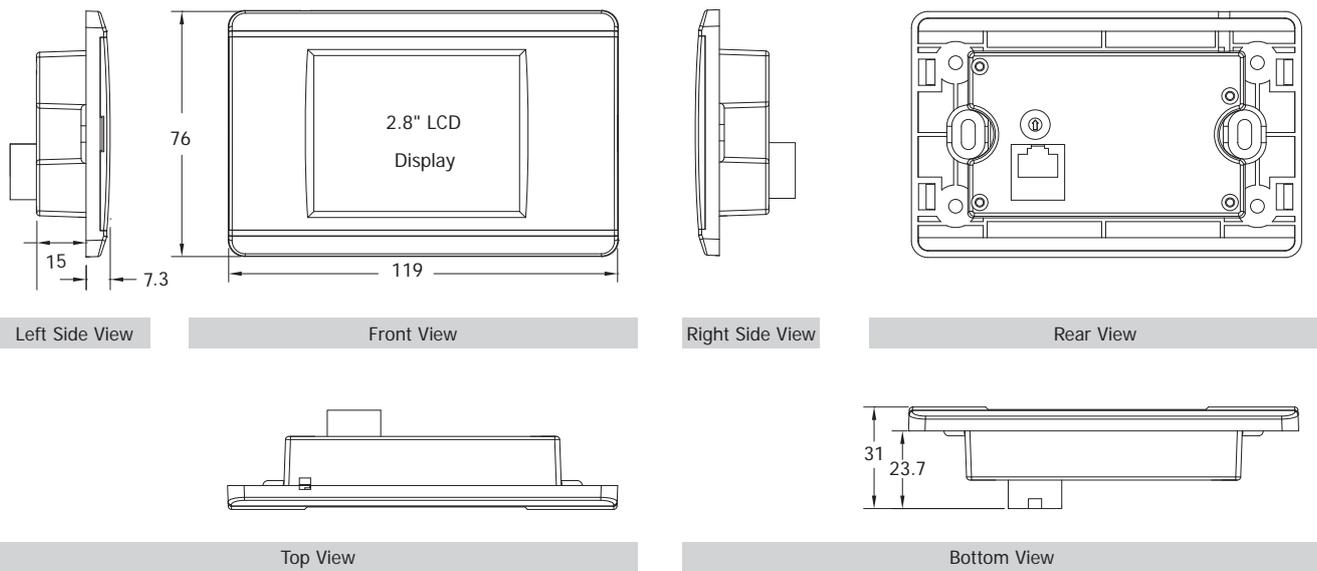
Models	TPD-280-W	TPD-280U-W	TPD-283-W	TPD-283U-W
CPU Module				
CPU	Lower-Power 32-bit RISC CPU			
Memory Expansion	-	SDRAM 16 MB/Flash 8 MB	-	SDRAM 16 MB/Flash 8 MB
Real Time Clock (RTC)	-	Yes	-	Yes
Buzzer	Yes			
Rotary Switch (0~9)	Yes			
Communication Interface				
Ethernet	-		RJ-45 x 1, 10/100 Base-TX	
Serial Port	RS-485 (including Self-Tuner)		-	
USB Client 1.1	-	Yes	-	Yes
MMI (Main Machine Interface)				
LCD	2.8" TFT (Resolution 240 x 320 x 16)			
Touch Panel	Yes			
Reset Button	Yes			
Electrical				
Power	+10 ~ 30 V _{DC}		PoE (IEEE 802.3af, Class 1)	
Consumption	1.2 W (50 mA @ 24 V _{DC})			N/A
Mechanical				
Dimension (W X L X H)	76mm (W) X 119mm (L) X 31mm (H)			
Wall Mount	Yes			
Environmental				
Operating Temperature	-20 ~ +70 °C			
Storage Temperature	-30 ~ +80 °C			
Ambient Relative Humidity	10 ~ 90% RH, non-condensing			

Dimensions (Units: mm)

TPD-280-W/TPD-280U-W



TPD-283-W/TPD-283U-W



Ordering Information

TPD-280-W CR	2.8" touch HMI device with RS-485 (RoHS)
TPD-280U-W CR	2.8" touch HMI device with RS-485, USB client 1.1 (RoHS)
TPD-283-W CR	2.8" touch HMI device with Ethernet (10/100 Mbps) (RoHS)
TPD-283U-W CR	2.8" touch HMI device with Ethernet (10/100 Mbps), USB client 1.1 (RoHS)

Accessories

	NS-205PSE CR	Unmanaged Industrial PoE (Power over Ethernet) Ethernet Switch (RoHS)
	NS-208PSE CR	Unmanaged Industrial PoE (Power over Ethernet) Ethernet Switch (RoHS)
	NSM-208PSE CR	Unmanaged Industrial PoE (Power over Ethernet) Ethernet Switch (RoHS)
	MDR-20-24 CR	24 V _{dc} /1.0 A, 24 W Power Supply with DIN-Rail Mounting (RoHS)
	MDR-60-24 CR	24V/2.5A, 60 W Power Supply with DIN-Rail Mounting (RoHS)
	MDR-60-48 CR	48 V _{dc} /1.25 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)
	DIN-KA52F CR	24 V _{dc} /1.04 A, 25 W Power Supply with DIN-Rail Mounting (RoHS)
	DIN-KA52F-48 CR	48 V _{dc} /0.52 A, 25 W Power Supply with DIN-Rail Mounting (RoHS)
	KA52F-48 CR	48 V _{dc} /0.52 A, 25 W Power Supply (RoHS)