TPD-280-H

TPD-280U-H

TPD-283-H

TPD-283U-H

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)
- GUI design
- Free HMIWorks development tool
- Suppots C programming language and Ladder Designer
- Supports the custom communication protocol (C language)
- Modbus TCP/RTU protocol
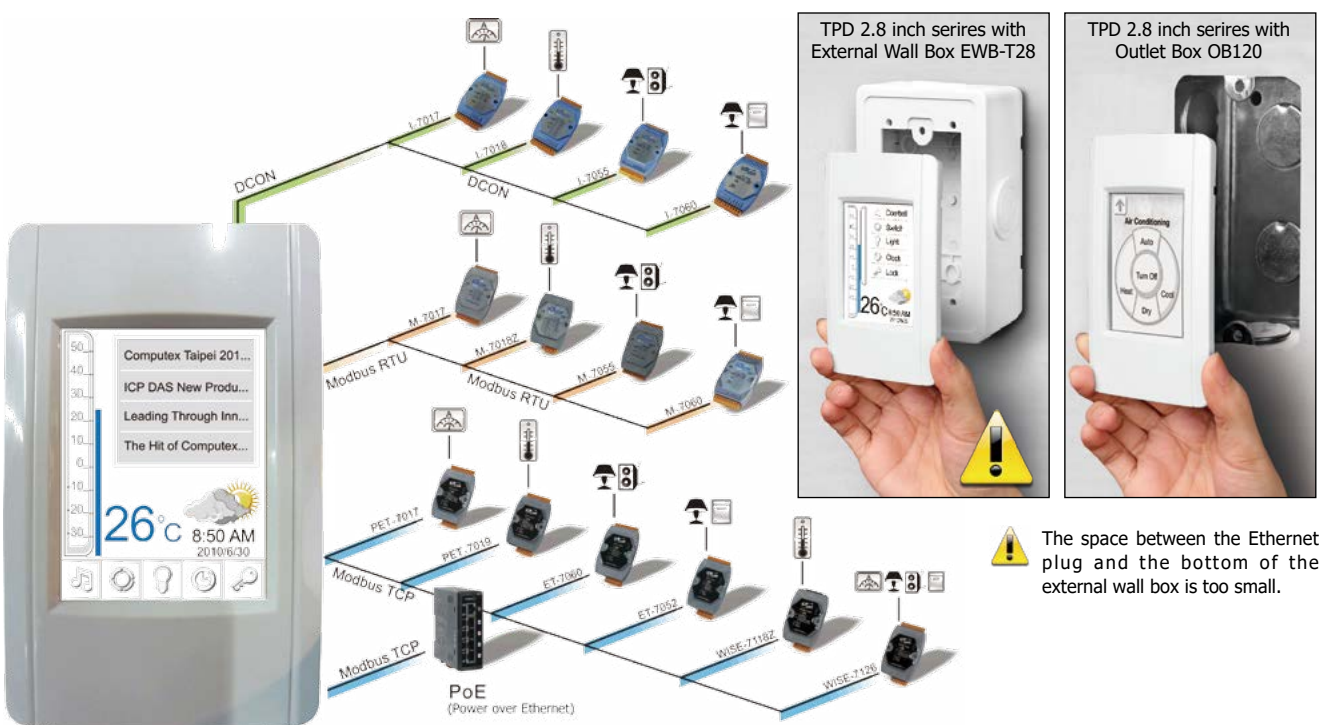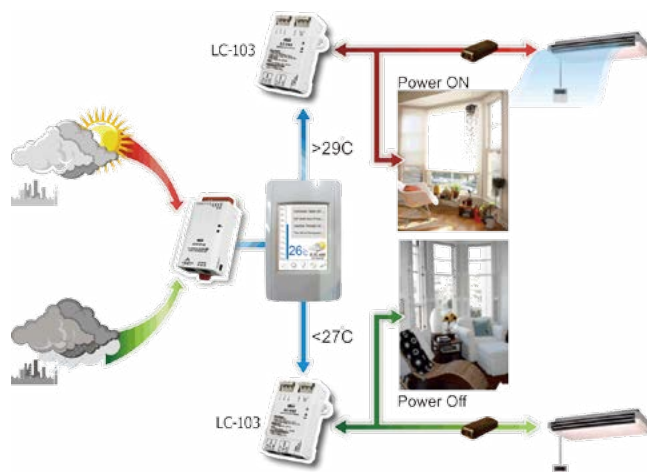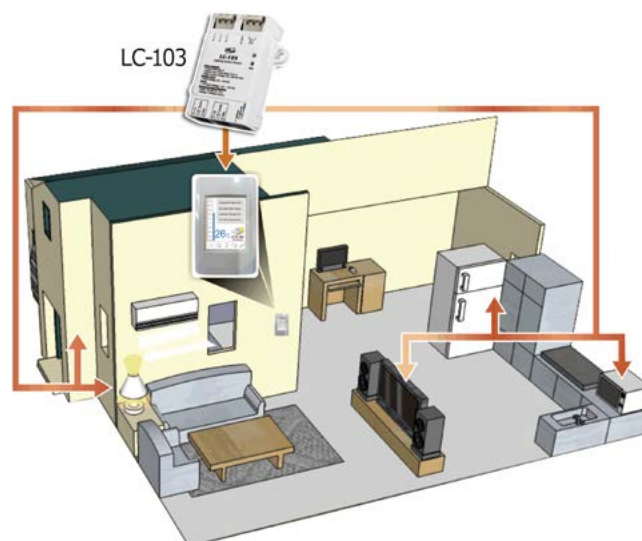- ESD Protection: 4 kV
- Operating temperature: -20 ~ 70°C
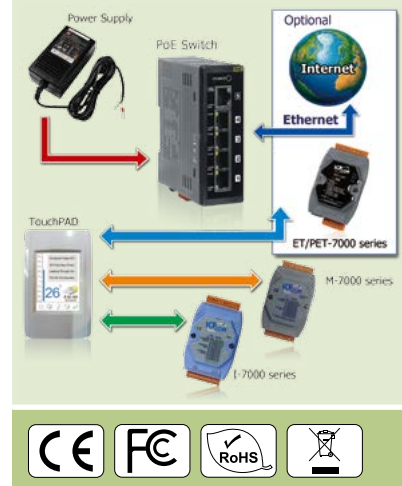
Introduction

TPD 2.8 inch serires is a series of tiny touch HMI and designed for building and home automation. TPD 2.8 inch serires 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-H of TPD-series HMI devices. With all the features provided, TPD-series touch HMI Devices must be the most cost effective HMI Device ever been in the market.
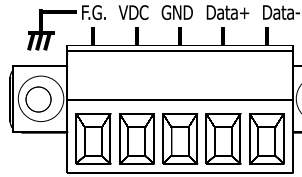
Applications

TPD 2.8 inch serires with External Wall Box EWB-T28

TPD 2.8 inch serires with Outlet Box OB120

The space between the Ethernet plug and the bottom of the external wall box is too small.

Backplane Systems Technology Pty Ltd
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Temperature Control Example

Intelligent Building Example

■ Specifications

Models	TPD-280-H	TPD-280U-H	TPD-283-H	TPD-283U-H
CPU Module				
CPU	32-bit RISC CPU			
Memory Expansion	-	16 MB SDRAM / 16 MB Flash	-	16 MB SDRAM / 16 MB Flash
Real Time Clock (RTC)	-	Yes	-	Yes
Buzzer	Yes			
Rotary Switch (0~9)	Yes			
Communication Interface				
Serial Port	RS-485 (including Self-Tuner)		-	RS-485 (including Self-Tuner)
Ethernet	-		RJ-45 x 1, 10/100 Base-TX	
USB 1.1 Clinet	-	Firmware update only	-	Firmware update only
MMI (Main Machine Interface)				
LCD	2.8" TFT (Resolution 240 x 320 , 65535 colors), defective pixels <= 3			
Backlight Life	20,000 hours			
Brightness	160 cd/m2			
Touch Panel	Resistive Touch			
Reset Button	Yes			
Electrical				
Powered from Terminal Block	+12 ~ 48 V$_{DC}$		-	+12 ~ 48 V$_{DC}$
Powered from PoE	-		IEEE 802.3af, Class1 (48 V)	
Power Consumption	1.5 W			
Mechanical				
Dimensions (W x L x H)	119 mm x 76 mm x 33 mm	119 mm x 76 mm x 33 mm	119 mm x 76 mm x 32 mm	119 mm x 76 mm x 33 mm
Installation	Wall Mount			
Ingress Protection	Front Panel: IP40			
Environmental				
Operating Temperature	-20 ~ +70°C			
Storage Temperature	-30 ~ +80°C			
Ambient Relative Humidity	10 ~ 90% RH, non-condensing			

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Pin Assignments

TPD-280-H/TPD-280U-H/TPD-283U-H

F.G. VDC GND Data+ Data-

Appearance

Front View

2.8" TFT LCD with Touch Panel

Alice HMI

TPD-280-H Rear View

RS-485

Rotary Switch

TPD-280U-H Rear View

RS-485

USB   Rotary Switch

TPD-283-H Rear View

Ethernet

Rotary Switch

TPD-283U-H Rear View

RS-485   Ethernet

Rotary Switch
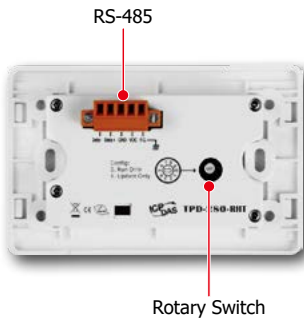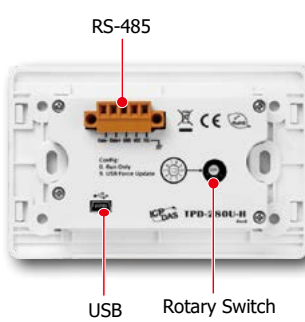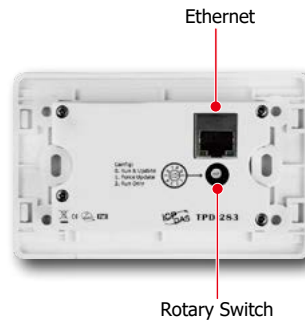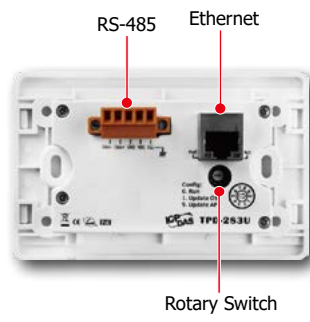
Dimensions (Units: mm)

TPD-280-H/TPD-280U-H

76

15

7.3

119

2.8" LCD Display

Left View   Front View   Right View   Rear View

33   25.7

Top View   Bottom View

TPD-283-H/TPD-283U-H

76

7.3

119

2.8" LCD Display

Left View   Front View   Right View   Rear View

31   23.7

Top View   Bottom View
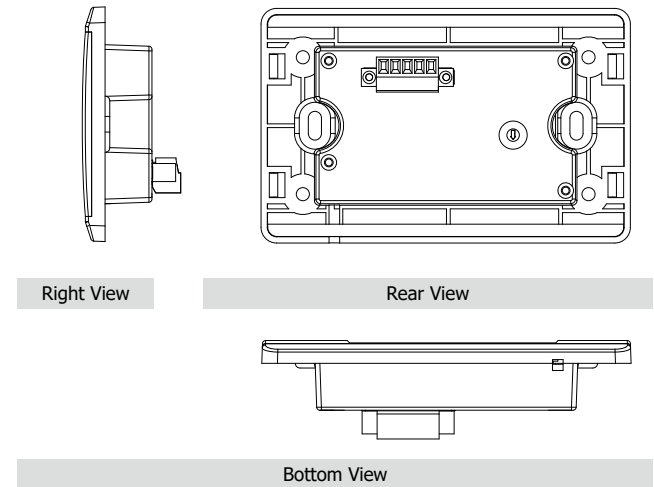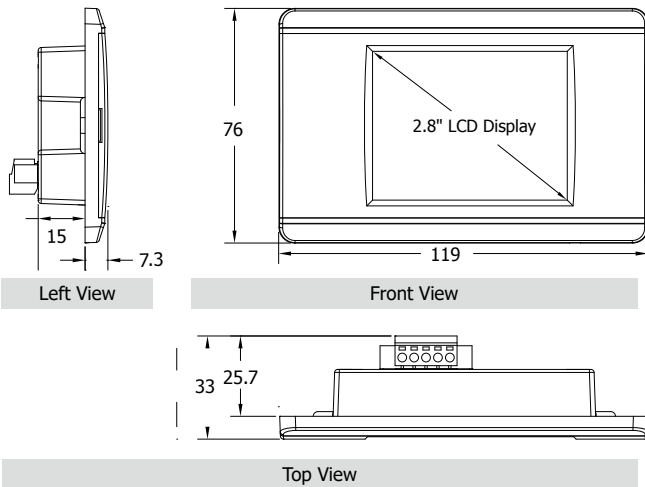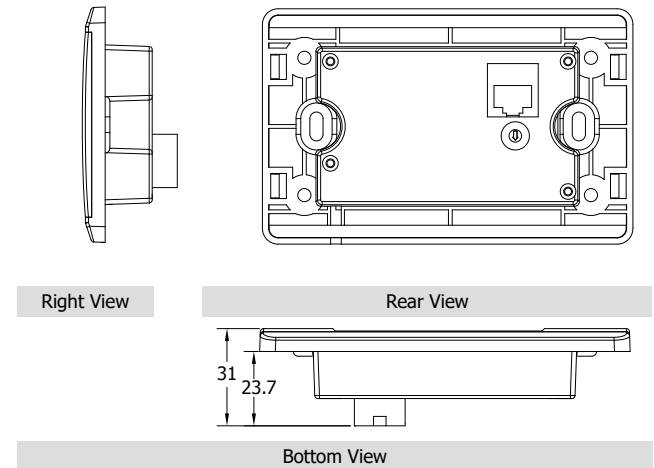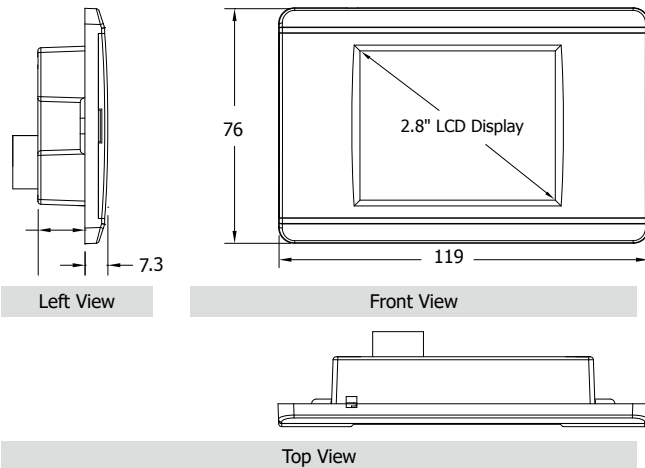
📁 Ordering Information

TPD-280-H CR	2.8" Touch HMI device with RS-485 (RoHS)
TPD-280U-H CR	2.8" Touch HMI device with RS-485, USB download, RTC (RoHS)
TPD-283-H CR	2.8" Touch HMI device with Ethernet, PoE (RoHS)
TPD-283U-H CR	2.8" Touch HMI device with RS-485, RTC, Ethernet, PoE (RoHS)

📁 Accessories

	1C016	2.4 mm Screw driver
	NS-208PSE CR	Unmanaged Industrial PoE (Power over Ethernet) Ethernet Switch (RoHS)
	MDR-60-24 CR	24 V_{DC}/2.5 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)
	EWB-T28	External Wall Box for TPD 2.8 inch series
	EWB-T28-BK	External Wall Box for TPD 2.8 inch series (Black)
	OB120	Outlet Box for TPD 2.8 inch series and TPD-430/ TPD-433 Devices