

### 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.

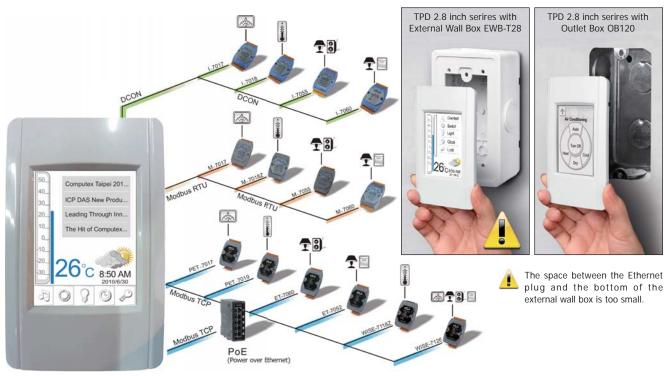
#### Features

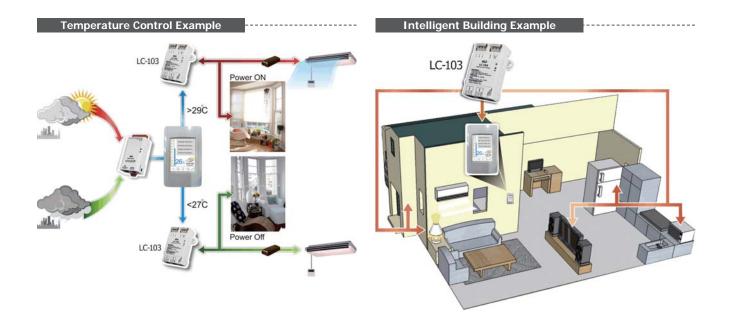
- Excellent C/P ratio (cost/performance)
- High-resolution color touch screen
- PoE (Power over Ethernet)
- RS-485 (including Self-Tuner)
- RTC (Real Time Clock)
- GUI design
- Free HMIWorks development tool
- Suppots C programming language and Ladder Designer
- Supports the custom communication protocol (C language)
- Modbus TCP/RTU protocol
- ESD Protection: 4 kV

Operating temperature: -20 ~ 70°C



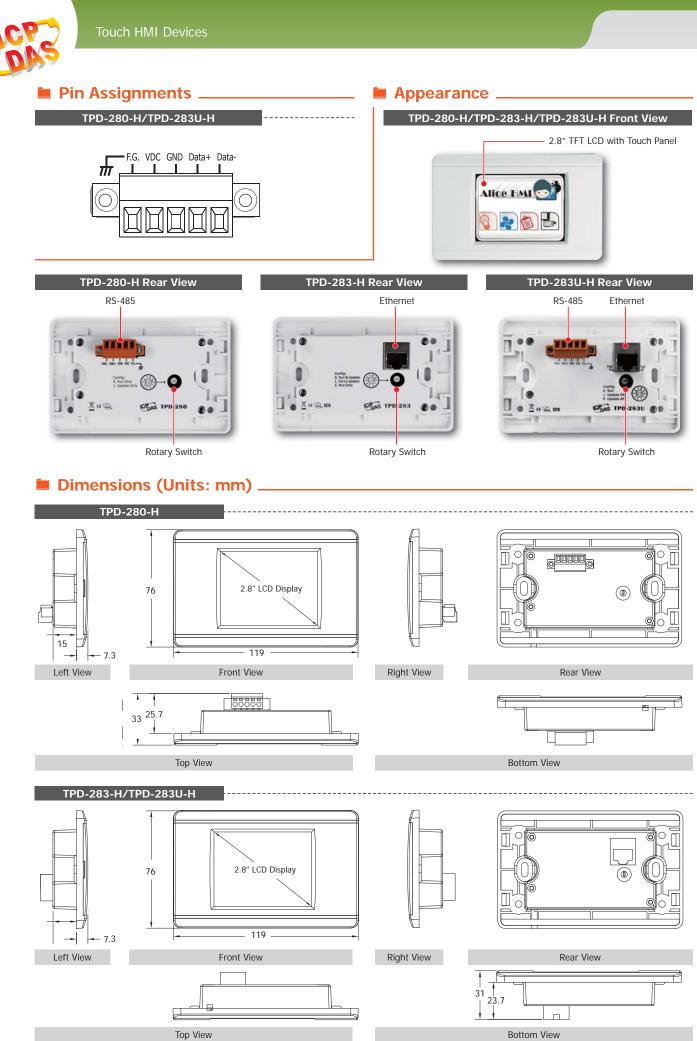
### Applications \_





### Specifications \_\_\_\_\_

Models		TPD-280-H	TPD-283-H	TPD-283U-H	
CPU Module					
CPU		32-bit RISC CPU			
Memory Expansion			-	16 MB SDRAM / 16 MB Flash	
Real Time Clock (RTC)			-	Yes	
Buzzer		Yes			
Rotary Switch (0~9)		Yes			
Communicatio	on Interface		-		
Serial Port	COM1	RS-485 (including Self-Tuner)	-	RS-485 (including Self-Tuner)	
Serial Port	COM2		-		
Ethernet		- RJ-45 x 1, 10/100 Base-TX			
MMI (Main Ma	achine 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 VDC	-	+12 ~ 48 VDC	
Powered from PoE		- IEEE 802.3af, Class1 (48 V)			
Power Consumption			1.5 W		
Mechanical					
Dimensions (W x L x H)		127 mm x 92 mm x 21.8 mm	127 mm x 92 mm x 31 mm		
Installation		Wall Mount			
Ingress Protection		Front Panel: IP40			
Environmenta	ıl				
Operating Temperature		-20 ~ +70°C			
Storage Temperature		-30 ~ +80°C			
Ambient Relative Humidity		10 ~ 90% RH, non-condensing			



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# Ordering Information \_\_\_\_\_\_

TPD-280-H CR	2.8" Touch HMI device with RS-485 (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 VDC/2.5 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)
DIN-KA52F CR	24 VDC/1.04 A, 25 W Power Supply with DIN-Rail Mounting (RoHS)
EWB-T28	External Wall Box for TPD 2.8 inch series
OB120	Outlet Box for TPD 2.8 inch series and TPD-430/ TPD-433 Devices