



TPD-280/283/283U-Mx Series Quick Start

v1.1, Jan. 2019

What's in the box?

Thanks for buying ICPDAS TPD 2.8 inch Mx Series device. This shipping package contains the following items:



TPD-280/283/283U-Mx
Series x 1



Quick Start x 1
(This Document)

Related Information

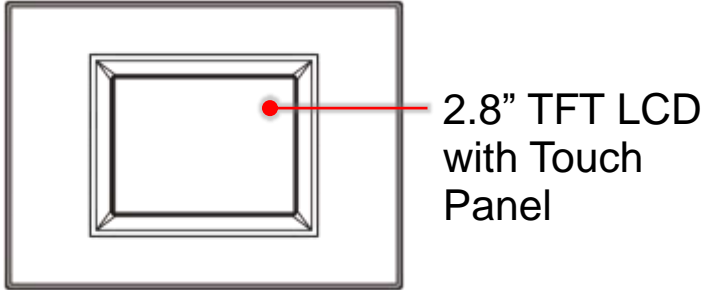
If you are new to TPD-280/283/283U-Mx Series, please read the **“Chapter 3. Getting Started” of the TouchPAD Hardware User Manual** for detailed information about install the free development tool – HMIWorks and how to create your first project.

- Documents, such as the User Manuals, the API References, etc.: <http://ftp.icpdas.com/pub/cd/touchpad/document/>
- Free Development Software, HMIWorks v2.10.10 or above: <http://ftp.icpdas.com/pub/cd/touchpad/setup/>

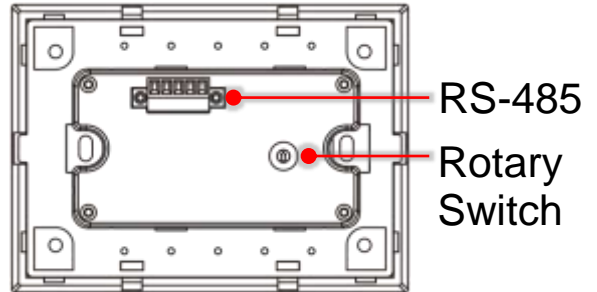
If you have any questions, please feel free to contact us via email.

1 Appearance

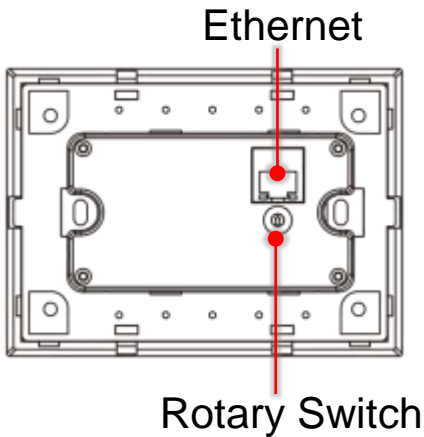
Front View



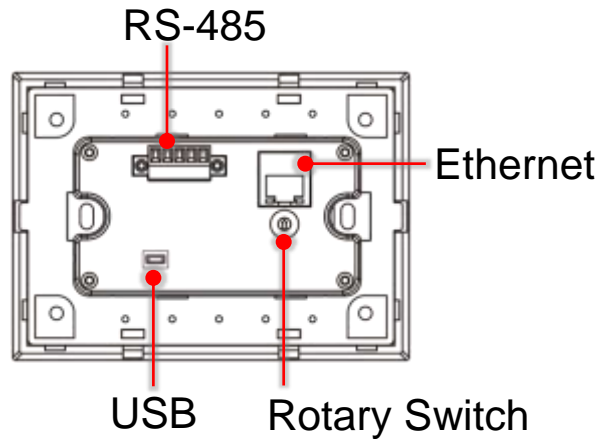
TPD-280-Mx Rear View



TPD-283-Mx Rear View

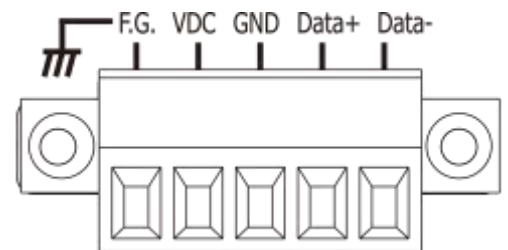


TPD-283U-Mx Rear View



2 Pin Assignments

On the back of the TPD-280/283U-Mx




No	Pin	Description
0	F.G.	Frame Ground. F.G. is connected to the inside EMI or ESD suppression circuits. Make sure that F.G. is connected to the Earth
1	VDC	DC input Voltage (range: +12 V ~ +48 V)
2	GND	Connected to the power supply's ground pin
3	Data+	The positive data line of the RS-485 network
4	Data-	The negative data line of the RS-485 network


3

Rotary Switch & Default Settings


The definition of the rotary switch (TPD-280-Mx):

	No	Mode	Description
	0	Run Only	Run the program. (Default)
	1	Update Only	This mode is used for updating programs.

The definition of the rotary switch (TPD-283-Mx):

	No	Mode	Description
	0	Run & Update	Run or update the program. This mode is used in the development phase. (Default)
	1	Force Update	While the application run on the TouchPAD device seriously crashes, use this mode to update a new application to the TouchPAD device through Ethernet.
	2	Run Only	Run the program.

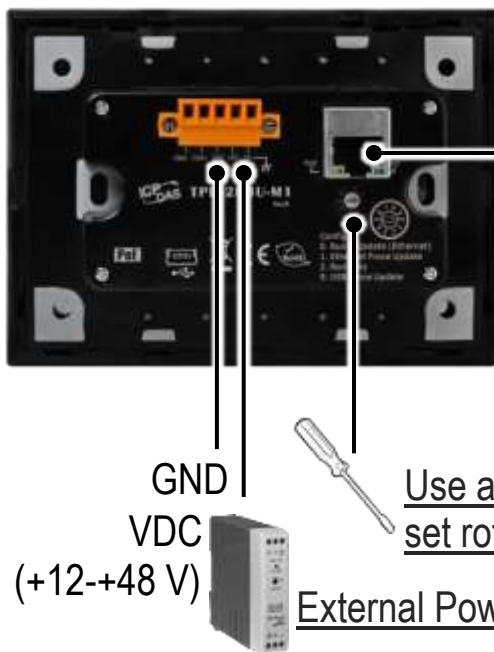
The definition of the rotary switch (TPD-283U-Mx):

	No	Mode	Description
	0	Run & Update (Ethernet)	This is a special run mode which is used in the development stage. The TouchPAD device can be updated by a PC from the remote side through Ethernet. (Default)
	1	Ethernet Force Update	While the application run on the TouchPAD device seriously crashes, use this mode to update a new application to the TouchPAD device through Ethernet.
	2	Run Only	Run the program.
	9	USB Force Update	Update a new application to the TouchPAD device through USB.

Network Default Settings (TPD-283/283U-Mx):

IP Address	192.168.255.1
Subnet Mask	255.255.0.0
Gateway	192.168.0.1

4 First Use of the TPD 2.8" Mx Series



1. Connect wires as the below figure or prepare an Ethernet cable which will be used to supply power through PoE if there's a RJ-45 Ethernet port on it. And set the rotary switch to 0 (At this point, the power is not yet supplied).



PoE Switch
(TPD-283/283U-Mx only)



Use a flat-head screwdriver to set rotary switch



External Power (TPD-280/283U-Mx only)

2. Supply power to the TPD-280/283/283U-Mx, wait for several seconds and then you can see the default program run on it.

3. Try to touch on the icons on the bottom-right corner of the screen of the TPD-280/283/283U-Mx and you can find that TPD-280/283/283U-Mx switches to the setting pages.



5 Hardware Installation

Outlet Box, OB120 (optional)





TPD-280/283/283U-Mx 系列 快速入門指南

v1.1, 2019 年 1 月

檢查配件

感謝您購買泓格的 TPD 2.8 吋 Mx 系列產品。產品包裝內應包含下列配件：



TPD-280/283/283U-Mx 系列 x 1



產品須知 x 1(本文件)

參考資訊

如果您是第一次使用 TPD-280/283/283U-Mx 系列，請參閱 **TouchPAD 硬體使用手冊** 的“**第 3 章 啟動 TouchPAD**”來了解如何安裝免費的開發軟體 HMIWorks 並建立第一個專案以及更多詳細的相關資訊。

- 相關文件，如使用手冊、應用程式介面指南(API Reference) 等：

<http://ftp.icpdas.com/pub/cd/touchpad/document/>

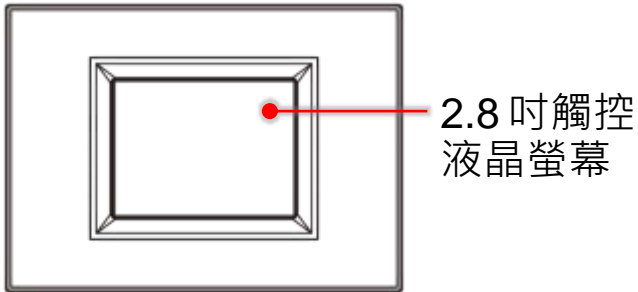
- 免費開發軟體，HMIWorks 版本 2.10.10 或以上版本：

<http://ftp.icpdas.com/pub/cd/touchpad/setup/>

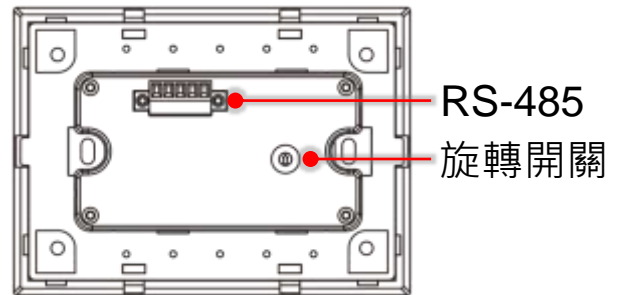
如有任何問題歡迎使用 E-mail 聯繫我們，我們將會為您提供完善的諮詢服務。

1 外觀

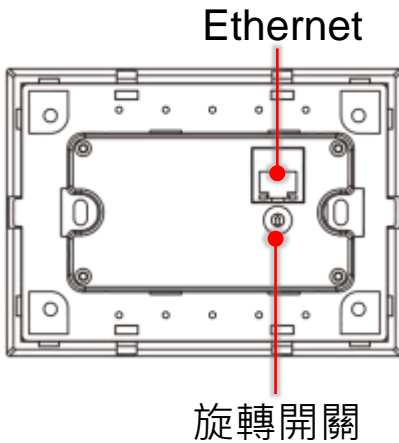
前配置圖



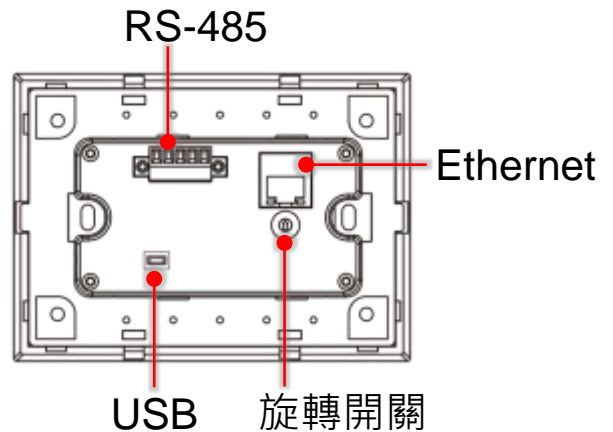
TPD-280-Mx 後配置圖



TPD-283-Mx 後配置圖

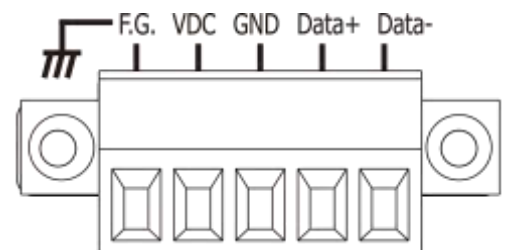


TPD-283U-Mx 後配置圖



2 腳位定義

在 TPD-280/283U-Mx 的背面可見到如右圖




No	Pin	說明
0	F.G.	機架接地，F.G. (連接到內部的 EMI 或 ESD 保護電路)，請接到大地
1	VDC	直流電壓輸入 (範圍：+12 V ~ +48 V)
2	GND	連到電源的接地端
3	Data+	RS-485 網路的正訊號線
4	Data-	RS-485 網路的負訊號線

3

旋轉開關及出廠預設值


TPD-280-Mx 旋轉開關的配置模式定義:

	No	模式	說明
	0	Run Only	執行程式。(出廠預設)
	1	Update Only	更新程式。

TPD-283-Mx 旋轉開關的配置模式定義:

	No	模式	說明
	0	Run & Update	執行/更新程式，用於程式開發階段 (能執行程式，也能進行更新)。(出廠預設)
	1	Force Update	強制更新，當程式異常而無法進入上述更新時可用此模式更新。
	2	Run Only	執行程式。

TPD-283U-Mx 旋轉開關的配置模式定義:

	No	模式	說明
	0	Run & Update (Ethernet)	執行/更新程式，用於程式開發階段 (能執行程式，也能進行更新)。(出廠預設)
	1	Ethernet Force Update	強制更新，當 TouchPAD 上的程式嚴重毀損時可用此模式透過 Ethernet 更新。
	2	Run Only	執行程式。
	9	USB Force Update	透過 USB 更新程式。

網路設定出廠預設如下表 (TPD-283/283U-Mx):

IP Address	192.168.255.1
Subnet Mask	255.255.0.0
Gateway	192.168.0.1

4 第一次使用 TPD 2.8" Mx 系列



1. 如左圖所示，將電源和接地線連接完成。或是若有 RJ-45 的乙太網路接孔，可以準備一條網路線，透過乙太網路供電 (PoE)。然後將旋轉開關(Rotary Switch) 轉到 0 (此時尚未供電)。



乙太網路供電 (TPD-283/283U-Mx 適用)



使用一字起子來配置旋轉開關



外部供電器 (TPD-280/283U-Mx 適用)

2. 開始供電給 TPD-280/283/283U-Mx，等待約數秒的開機時間，接著可以看到 TPD-280/283/283U-Mx 執行出貨預附的程式如右圖所示。



3. 試著按一下 TPD-280/283/283U-Mx 螢幕上面的圖示，TPD-280/283/283U-Mx 會切到其他的頁面。

5 硬體安裝

安裝於專用暗盒 OB120 (選購)

