

# TPD-433F-H

## Quick Start Version 1.0

# 1

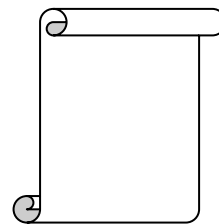
## Shipping package

Thanks for buying ICPDAS TPD-433F-H device. This shipping package contains the following items:

TPD-433F-H



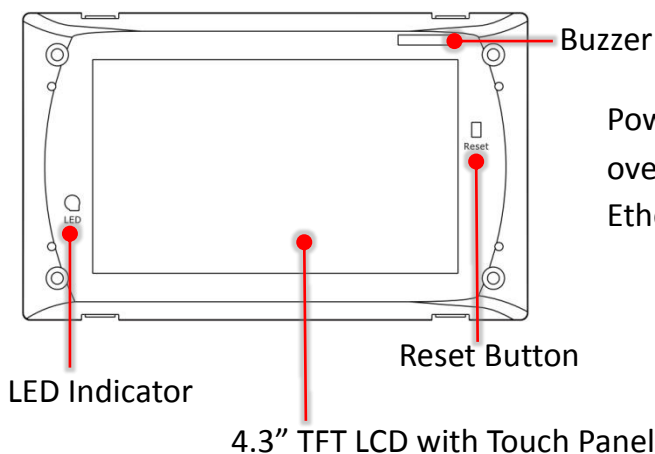
Quick Start (This Document)



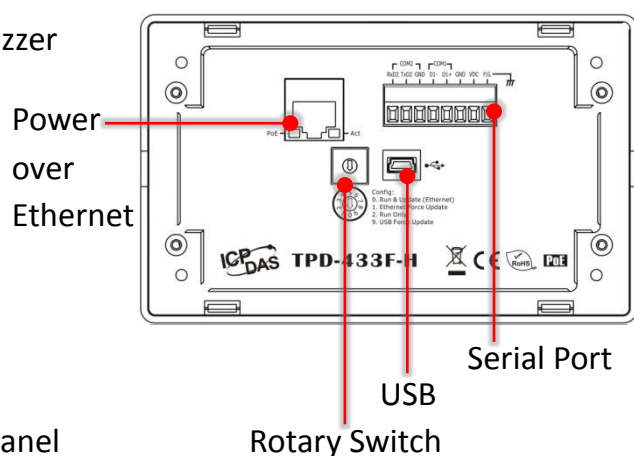
# 2

## Appearance

Front View

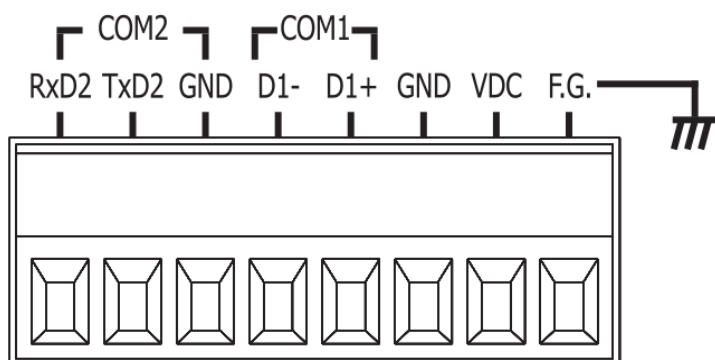


Rear View



# 3 Pin Assignment

On the back of the TouchPAD:



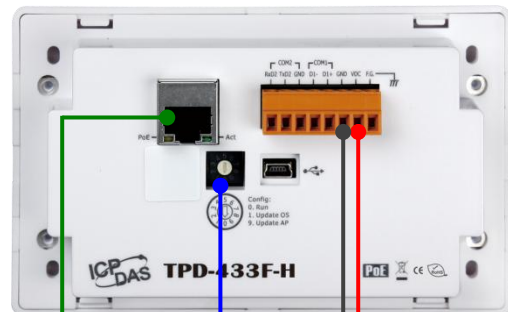
the pin assignments.

Pin	Description
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
VDC	DC input Voltage (range: +12 V ~ +48 V)
GND	Connected to the power supply's ground pin
D2+	The positive data line of the RS-485 network
D2-	The negative data line of the RS-485 network
TxD2	The pin of transmitted data of the RS-232
RxD2	The pin of received data of the RS-232

The definition of the rotary switch:

	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.
	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	This mode is used for running programs.
	9	USB 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 USB.

# 4 First Use of the TPD-433F-H



1. Connect wires as the 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 zero (At this point, the power is not yet supplied).



External Power

PoE Switch

Use a flat-head screwdriver to set rotary switch

2. Supply power to the TPD-433F-H, wait for several seconds and then you can see the default program run on it.



3. Try to touch on the icons on the screen of the TPD-433F-H and you can find that TPD-43xH switches to another page.

# 5 Creating First Project

To create your first project of the TPD-433F-H, install the free development tool, HMIWorks and then refer to <<TouchPAD\_getting\_started.pdf>>, which can be found on the FTP:

[ftp://ftp.icpdas.com/pub/cd/touchpad/document/english/getting\\_started](ftp://ftp.icpdas.com/pub/cd/touchpad/document/english/getting_started)

# 6 Hardware Installation

TPD-433F-H with External Wall Box,  
EWB-T43F (optional)



TPD-433F-H with Outlet Box,  
OB140F (optional)



# 7 Related Information

- TPD-433F-H Product Page:

[http://www.icpdas.com/root/product/solutions/hmi\\_touch\\_monitor/touchpad/tpd-43xf-h.html](http://www.icpdas.com/root/product/solutions/hmi_touch_monitor/touchpad/tpd-43xf-h.html)

- Documents, such as the user manuals, the API references, etc.:

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

- Free Development Software, HMIWorks v2.10.02 or above:

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

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

[service@icpdas.com](mailto:service@icpdas.com), [service.icpdas@gmail.com](mailto:service.icpdas@gmail.com)

# TPD-433F-H

## 快速入門指南 版本 1.0

# 1

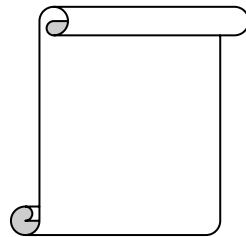
## 檢查配件

感謝您購買泓格的 TPD-433F-H 產品。產品包裝內應包含下列配件：

TPD-433F-H



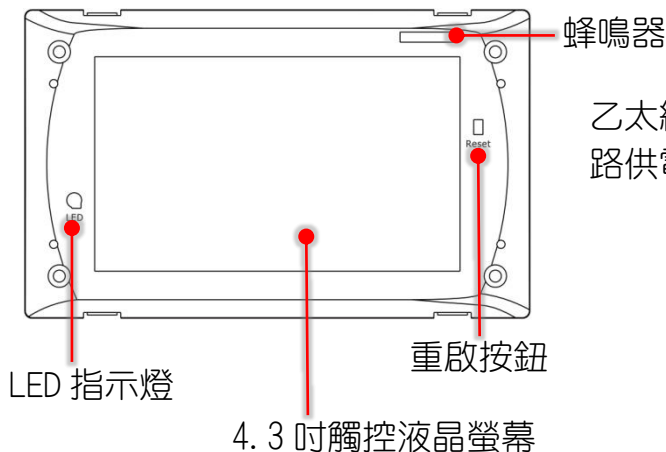
產品須知 (本文件)



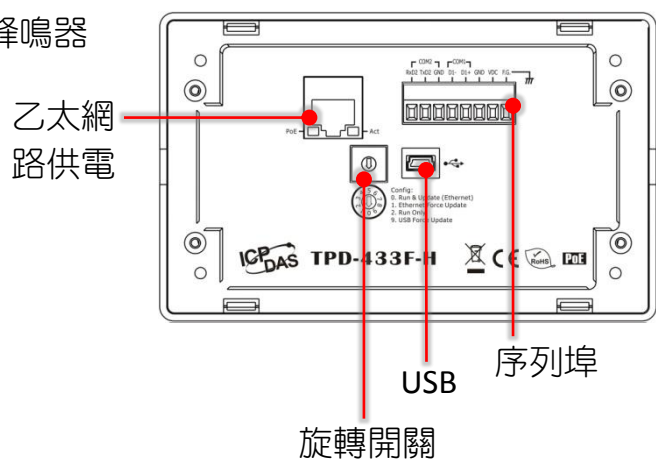
# 2

## 外觀

前配置圖

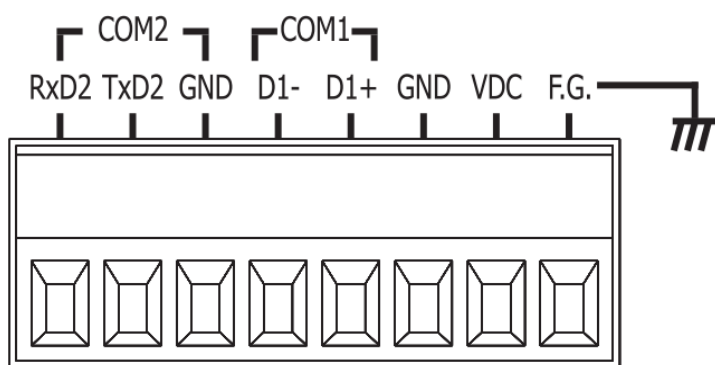


後配置圖



# 3 腳位定義

在 TouchPAD 的背面可見到如下圖樣：



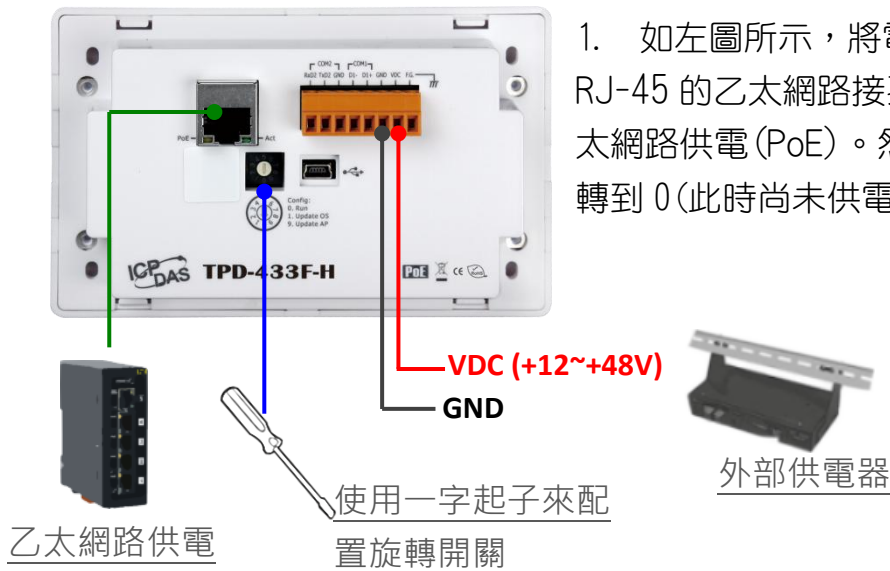
腳位定義：

Pin	說明
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。
VDC	直流電壓輸入（範圍：+12 V ~ +48 V）
GND	連到電源的接地端
D2+	RS-485 網路的正訊號線
D2-	RS-485 網路的負訊號線
TxD2	RS-232 的傳送資料腳位
RxD2	RS-232 的接收資料腳位

旋轉開關（Rotary Switch）的配置模式定義：

	項次	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）。
	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（只能執行程式，不能進行更新）。
	9	USB Force Update	強制更新，當 TouchPAD 上的程式嚴重毀損時可用此模式透過 USB 更新。

# 4 第一次使用 TPD-433F-H



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)。

2. 開始供電給 TPD-433F-H，等待約數秒的開機時間，接著可以看到 TPD-433F-H 執行出貨預附的程式如圖所示。



3. 試著按一下 TPD-433F-H 螢幕上面的圖示，TPD-433F-H 會切到其他的頁面。

# 5 建立第一個軟體專案

在建立 TPD-433F-H 的第一個專案之前，請先安裝免費的開發軟體 HMIWorks。然後參考<< TouchPAD\_getting\_started. pdf>>這份文件，一步一步地完成。該份文件可以在 FTP 上找到：  
[ftp://ftp.icpdas.com/pub/cd/touchpad/document/english/getting\\_started](ftp://ftp.icpdas.com/pub/cd/touchpad/document/english/getting_started)

# 6 硬體安裝

TPD-433F-H 安裝於專用  
明盒 EWB-T43F(選購)



TPD-433F-H 安裝於專用  
暗盒 OB140F (選購)



# 7 參考資訊

➤ TPD-433F-H 產品網頁：

[http://www.icpdas.com/root/product/solutions/hmi\\_touch\\_monitor/touchpad/tpd-43xf-h\\_tc.html](http://www.icpdas.com/root/product/solutions/hmi_touch_monitor/touchpad/tpd-43xf-h_tc.html)

➤ 相關文件，如使用手冊、API 函數手冊…等：

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

➤ 免費開發軟體，HMIWorks 版本 2.10.02 或以上版本：

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

如有任何問題歡迎聯繫我們，我們將會為您提供完善的諮詢服務：

E-mail: [service@icpdas.com](mailto:service@icpdas.com), [service.icpdas@gmail.com](mailto:service.icpdas@gmail.com)