

VPD-142(N)-H/143(N)-H

Quick Start

1 Shipping package

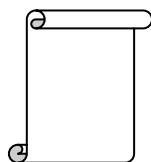
Thanks for buying ICPDAS VPD-142-H/143-H Series device. This shipping package contains the following items:

VPD-142-H/143-H Series x 1

Quick Start x 1

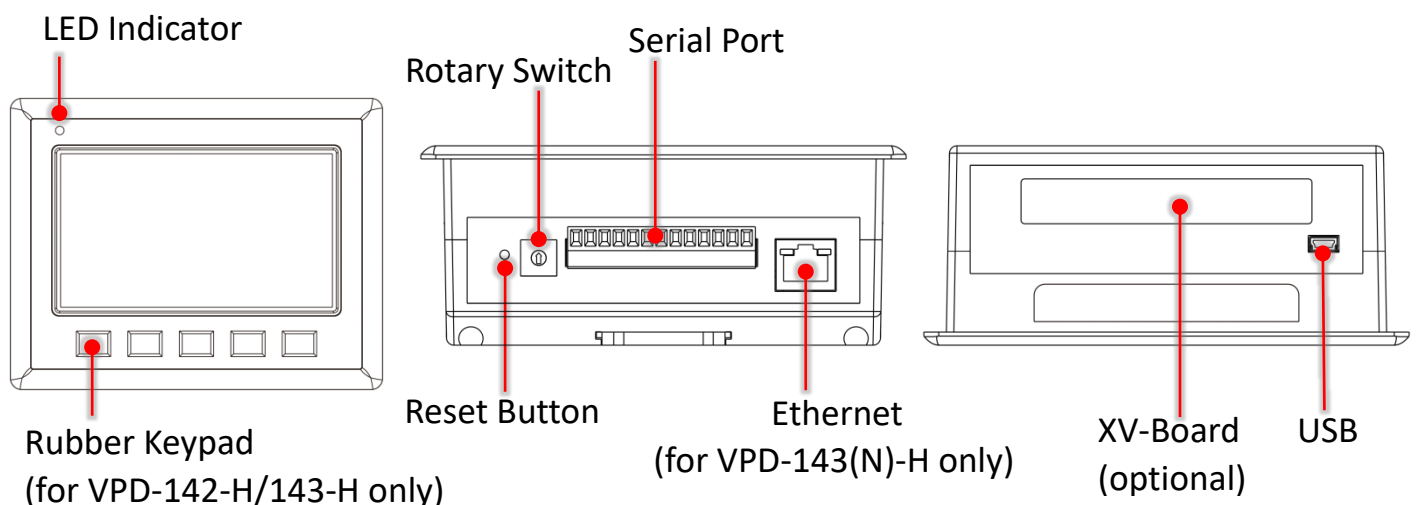
Screw Driver x 1

Panel Mounting kit x 1



VPD-142N-H or VPD-142-H
VPD-143N-H or VPD-143-H

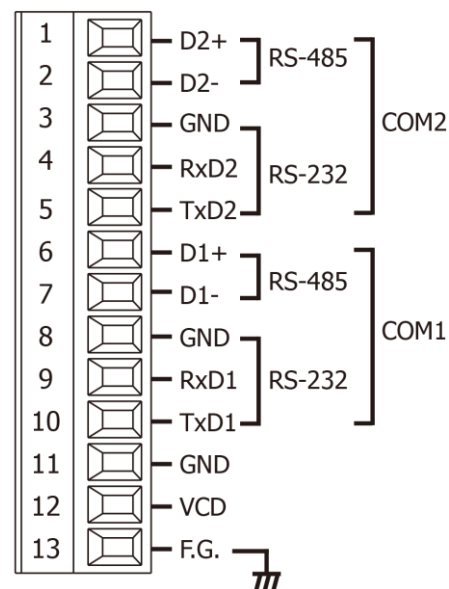
2 Appearance



3 Pin Assignment

The pin assignments:

Pin	Description
D2+	The positive data line of the RS-485 network
D2-	The negative data line of the RS-485 network
GND	The common ground of the RS-232
RxD2	The pin of received data of the RS-232
TxD2	The pin of transmitted data of the RS-232
D1+	The positive data line of the RS-485 network
D1-	The negative data line of the RS-485 network
GND	Ground pin
RxD1	The pin of received data of the RS-232
TxD1	The pin of transmitted data of the RS-232
GND	Connected to the power supply's ground pin
VDC	DC input Voltage (range: +12 V ~ +48 V)
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



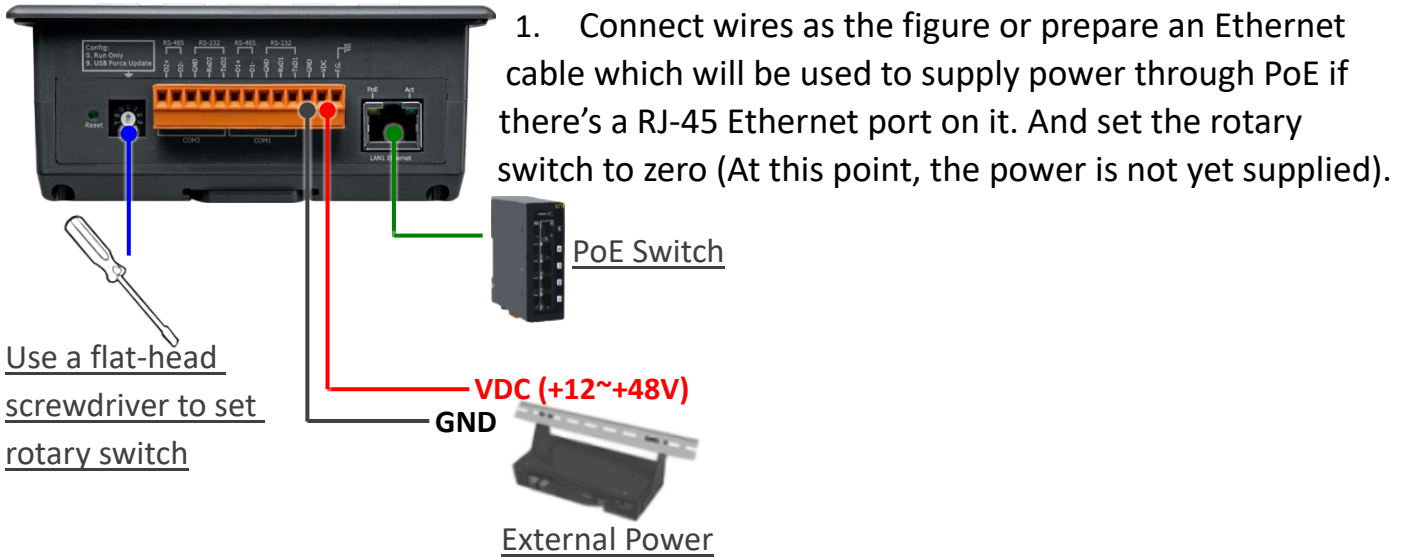
The definition of the rotary switch (**VPD-142(N)-H**):

	No	Mode	Description
	0	Run Only	This mode is used for running programs.
	9	USB Update	Update a new application to the TouchPAD device through USB.

The definition of the rotary switch (**VPD-143(N)-H**):

	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	Run the program.
	9	USB Force Update	Update a new application to the TouchPAD device through USB.

4 First Use of the VPD-142/143-H



2. Supply power to the VPD-142(N)-H/143(N)-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 bottom-right corner of the screen of the VPD-142(N)-H/143(N)-H and you can find that VPD-142(N)-H/143(N)-H switches to the setting pages.



5 Creating First Project

To create your first project of the VPD-142(N)-H/143(N)-H, install the free development tool, HMIWorks and then refer to <<TouchPAD_programming_guide.pdf>>, which can be found on the FTP:

http://ftp.icpdas.com/pub/cd/touchpad/document/english/programming_guide/

6 Hardware Installation

The panel mounting of VPD-142(N)-H/143(N)-H

Insert the panel mounting clips into the upper and lower ventilation holes.

Screw the panel mounting clips to the panel. (Mounting Screw: M4 x 30L)



The DIN-rail Mounting of VPD-142(N)-H/143(N)-H



7 Related Information

➤ VPD-142(N)-H/142(N)-H Product Page:

http://www.icpdas.com/root/product/solutions/hmi_touch_monitor/touchpad/vpd-142-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 v2.10.10 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, service.icpdas@gmail.com

VPD-142(N)-H/143(N)-H 快速入門指南

1 檢查配件

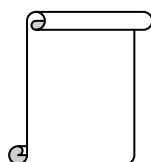
感謝您購買泓格的 VPD-142(N)-H/143(N)-H 產品。產品包裝內應包含下列配件：

VPD-142-H/143-H 系列 x 1

入門指南(本文件) x 1

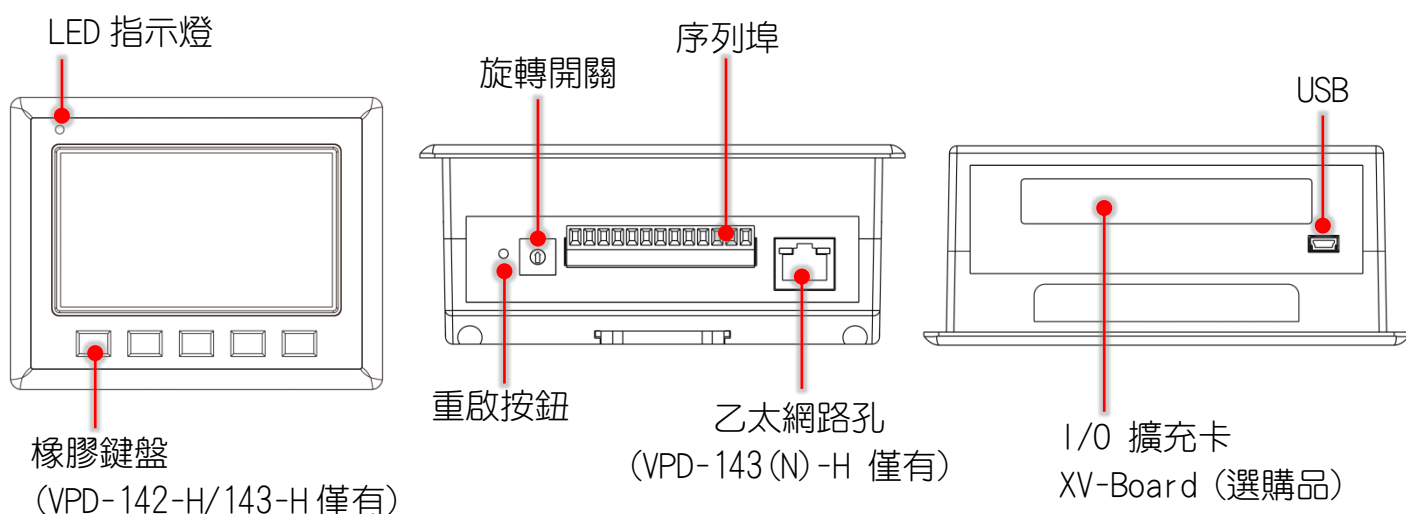
螺絲刀 x 1

面板安裝組件 x 1



VPD-142N-H 或 VPD-142-H
VPD-143N-H VPD-143-H

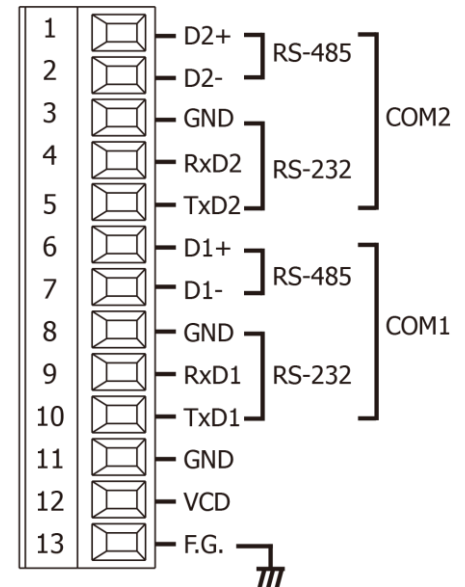
2 外觀



3 腳位定義

序列埠腳位定義：

Pin	說明
D2+	RS-485 網路的正訊號線
D2-	RS-485 網路的負訊號線
GND	RS-232 的接地端
RxD2	RS-232 的接收資料腳位
TxD2	RS-232 的傳送資料腳位
D1+	RS-485 網路的正訊號線
D1-	RS-485 網路的負訊號線
GND	RS-232 的接地端
RxD1	RS-232 的接收資料腳位
TxD1	RS-232 的傳送資料腳位
GND	連到電源的接地端
VDC	直流電壓輸入 (範圍 : +12 V ~ +48 V)
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。



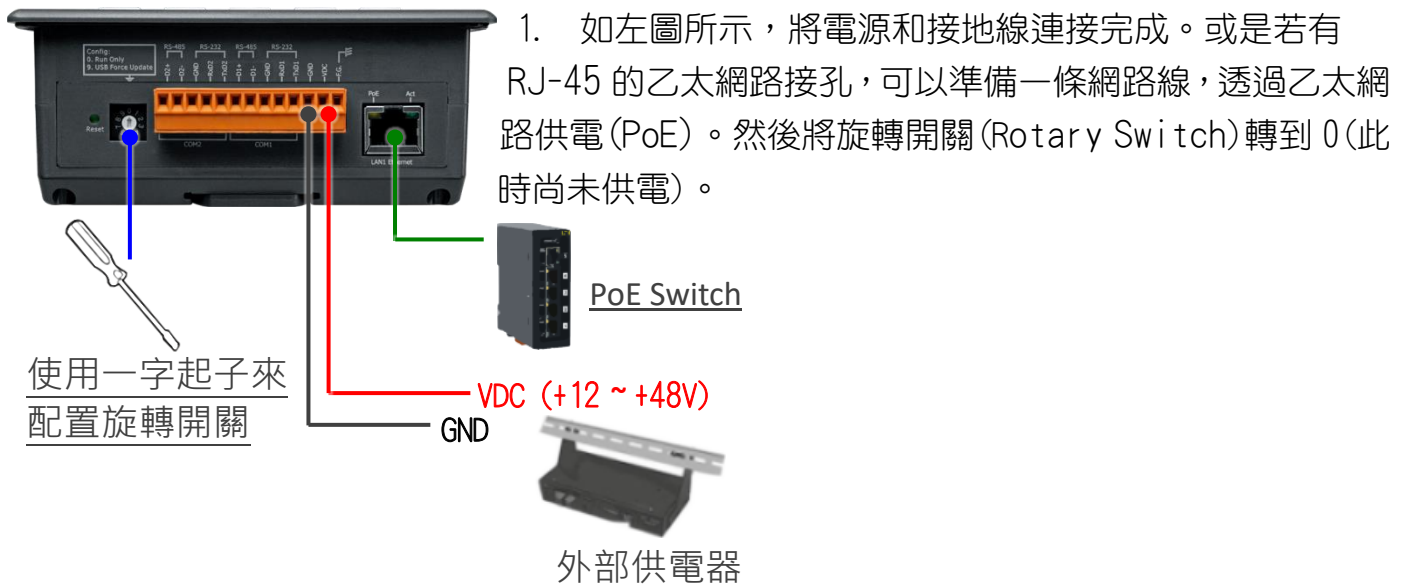
VPD-142 (N) -H 旋轉開關 (Rotary Switch) 的配置模式定義：

	項次	模式	說明
	0	Run Only	執行程式 (只能執行程式, 不能進行更新)。
	9	USB Force Update	透過 USB 更新程式。

VPD-143 (N) -H 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。
	9	USB Force Update	透過 USB 更新程式。

4 第一次使用 VPD-142/143-H



2. 開始供電給 VPD-142 (N) -H/143 (N) -H，等待約數秒的開機時間，接著可以看到 VPD-142 (N) -H/143 (N) -H 執行出貨預附的程式如圖所示。



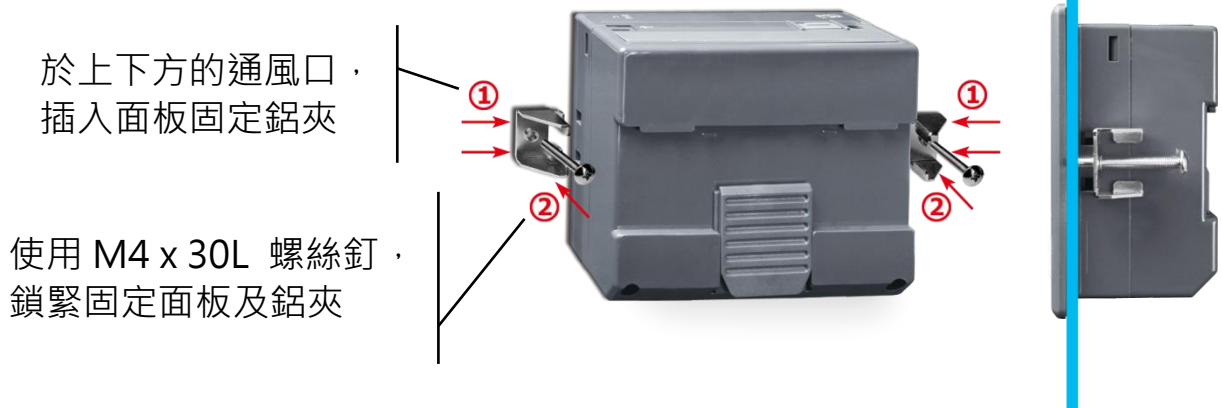
3. 試著按一下 VPD-142 (N) -H/143 (N) -H 螢幕上面的圖示，VPD-142 (N) -H/143 (N) -H 會切到其他的頁面。

5 建立第一個軟體專案

在建立 VPD-142 (N) -H/143 (N) -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_programming_guide.pdf >>這份文件，一步一步地完成。該份文件可以在 FTP 上找到：http://ftp.icpdas.com/pub/cd/touchpad/document/chinese/programming_guide/

6 硬體安裝

VPD-142(N)-H/143(N)-H 的面板安裝 (Panel Mounting)



VPD-142(N)-H /143(N)-H 導軌安裝 (DIN-rail Mounting)



7 參考資訊

- VPD-142(N)-H/143(N)-H 產品網頁：
http://www.icpdas.com/root/product/solutions/hmi_touch_monitor/touchpad/vpd-142-h_tc.html
- 相關文件，如使用手冊、API 函數手冊…等：
<http://ftp.icpdas.com/pub/cd/touchpad/document/chinese/>
- 免費開發軟體，HMIWorks 版本 2.10.10 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, service.icpdas@gmail.com