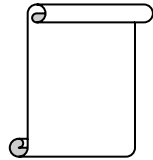# VPD-173X/173X-64
Quick Start

1 Shipping package

This shipping package contains the following items:

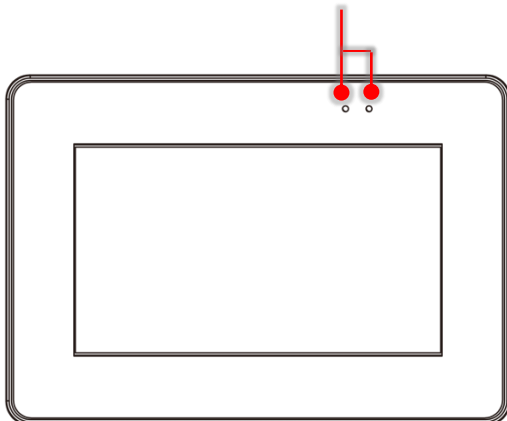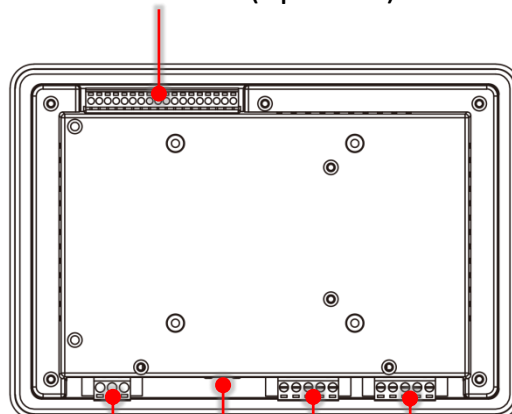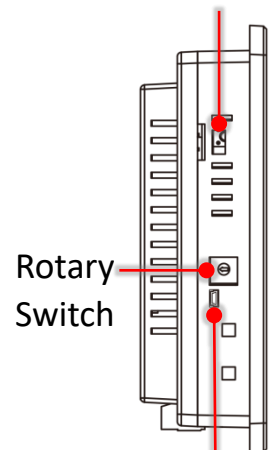| VPD-173X/VPD-173X-64 x 1	Quick Start x 1	Screw Driver x 1	Panel Mounting kit x 1

2 Appearance

LED Indicator

XV-Board (optional)

Reset Button

Rotary Switch

Ethernet

Serial Port

USB

3 Pin Assignment
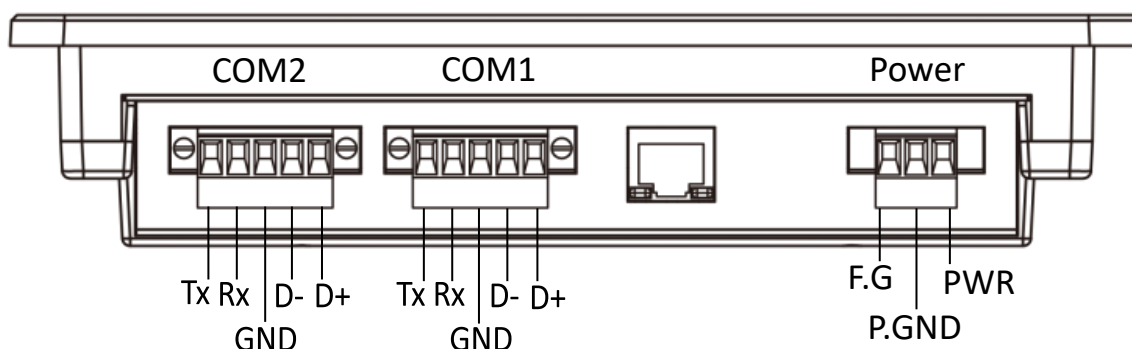
Pin		Description
COM2	Tx	The pin of transmitted data of the RS-232
	Rx	The pin of received data of the RS-232
	GND	Ground pin
	D-	The negative data line of the RS-485 network
	D+	The positive data line of the RS-485 network
COM1	Tx	The pin of transmitted data of the RS-232
	Rx	The pin of received data of the RS-232
	GND	Ground pin
	D-	The negative data line of the RS-485 network
	D+	The positive data line of the RS-485 network
Power	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
	P.GND	Connected to the power supply's ground pin
	PWR	DC input Voltage (range: +12 V ~ +48 V)

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

4 First Use of the VPD-173X
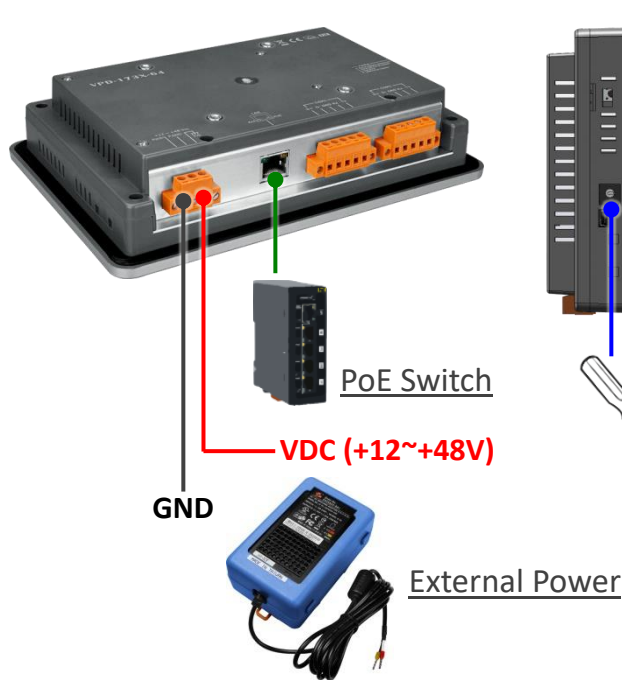
1. Connect wires as the figure. External Power can be removed if you have a PoE Switch providing power through an Ethernet cable to the TouchPAD. And set the rotary switch to zero (At this point, the power is not yet supplied).

PoE Switch

VDC (+12~+48V)

GND

External Power

Use a flat-head screwdriver to set rotary switch

2. Supply power to the VPD-173X/173X-64, 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-173X/173X-64 and you can find that VPD-173X/173X-64 switches to the setting pages.

5 Creating First Project

To create your first project of the VPD-173X/173X-64, install the free development tool, HMIWorks and then refer to **<<TouchPAD_programming_quide.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-173X/173X-64

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)
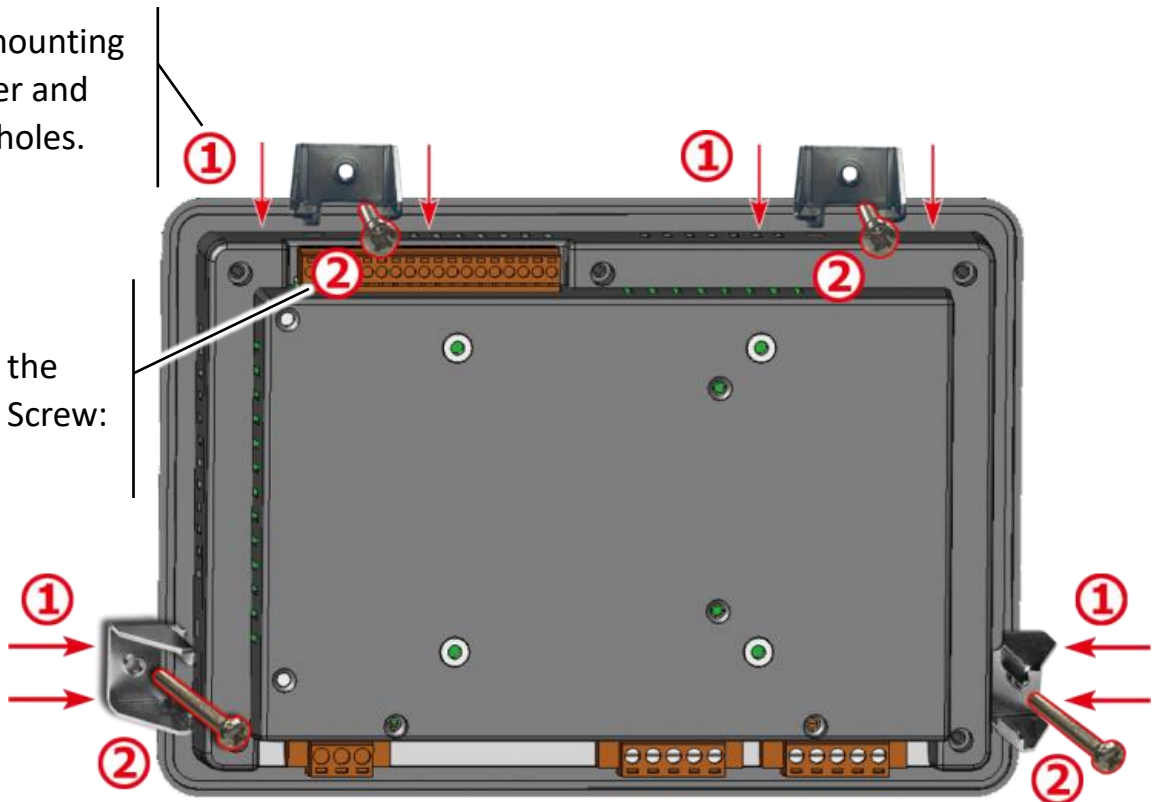
7 Related Information

➢ VPD-173X/173X-64 Product Page:

http://www.icpdas.com/root/product/solutions/hmi_touch_monitor/touchpad/vpd-173n.html

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

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

➢ Free Development Software, HMIWorks v2.10.24 or above:

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

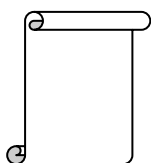# VPD-173X/173X-64
快速入門指南

1 檢查配件

產品包裝內應包含下列配件:

| VPD-173X/173X-64 x 1 | 入門指南(本文件) x 1 | 螺絲刀 x 1 | 面板安裝組件 x 1 |

2 外觀

LED 指示燈

I/O 擴充卡
XV-Board（選購品）

重啟按鈕

旋轉
開關
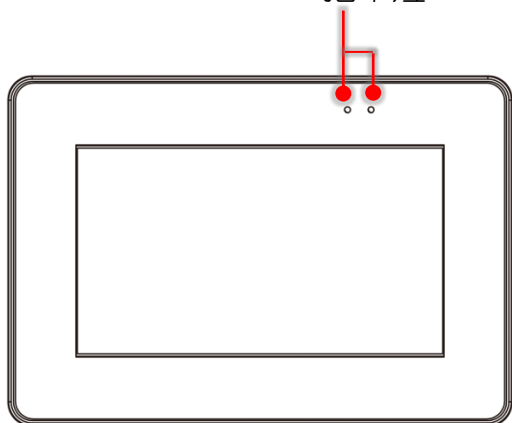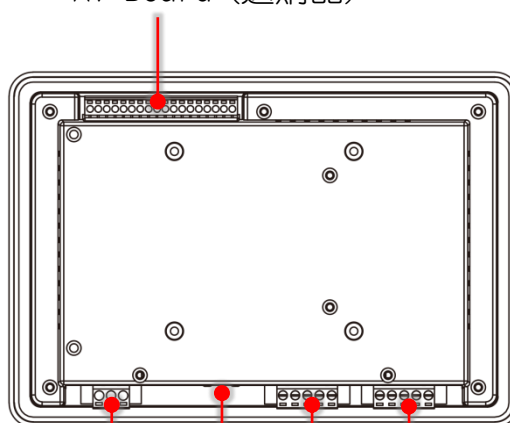
乙太網路孔　序列埠

USB
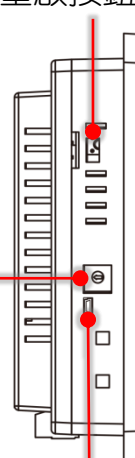
3 腳位定義
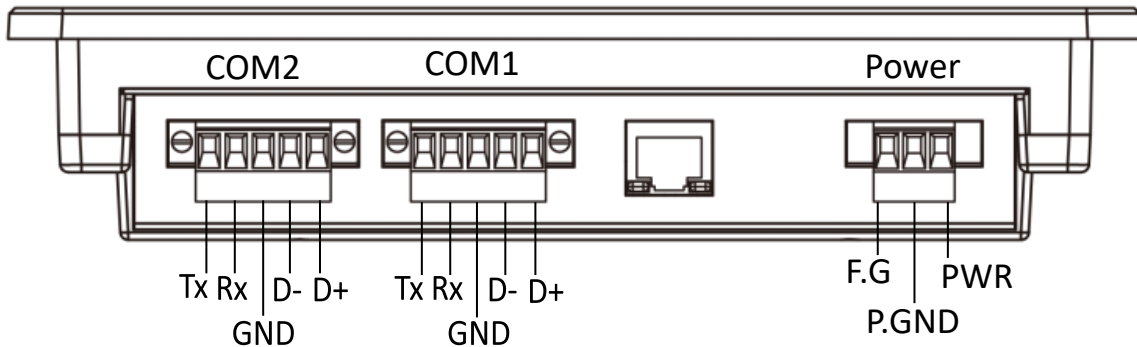
序列埠腳位定義:

Pin		說明
COM2	Tx	RS-232 的傳送資料腳位
	Rx	RS-232 的接收資料腳位
	GND	接地端
	D-	RS-485 網路的負訊號線
	D+	RS-485 網路的正訊號線
COM1	Tx	RS-232 的傳送資料腳位
	Rx	RS-232 的接收資料腳位
	GND	接地端
	D-	RS-485 網路的負訊號線
	D+	RS-485 網路的正訊號線
Power	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。
	P.GND	連到電源的接地端
	PWR	直流電壓輸入 （範圍：+12 V ~ +48 V）

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-173X
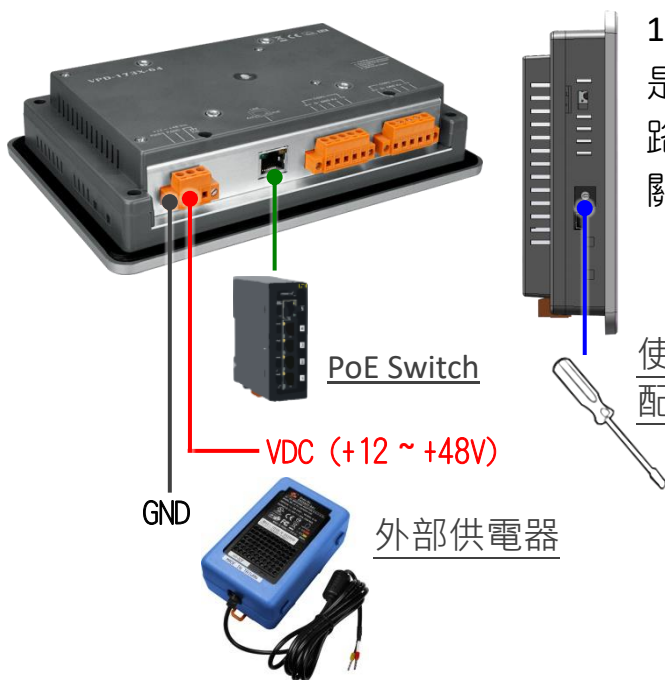
1. 如左圖所示，將電源和接地線連接完成。或是若有 RJ-45 的乙太網路接孔，可以準備一條網路線，透過乙太網路供電(PoE)。然後將旋轉開關（Rotary Switch）轉到 0 (此時尚未供電)。

PoE Switch

VDC（+12 ~ +48V）

GND

外部供電器

使用一字起子來
配置旋轉開關

2. 開始供電給 VPD-173X/173X-64，等待約數秒的開機時間，接著可以看到 VPD-173X/173X-64 執行出貨預附的程式如圖所示。

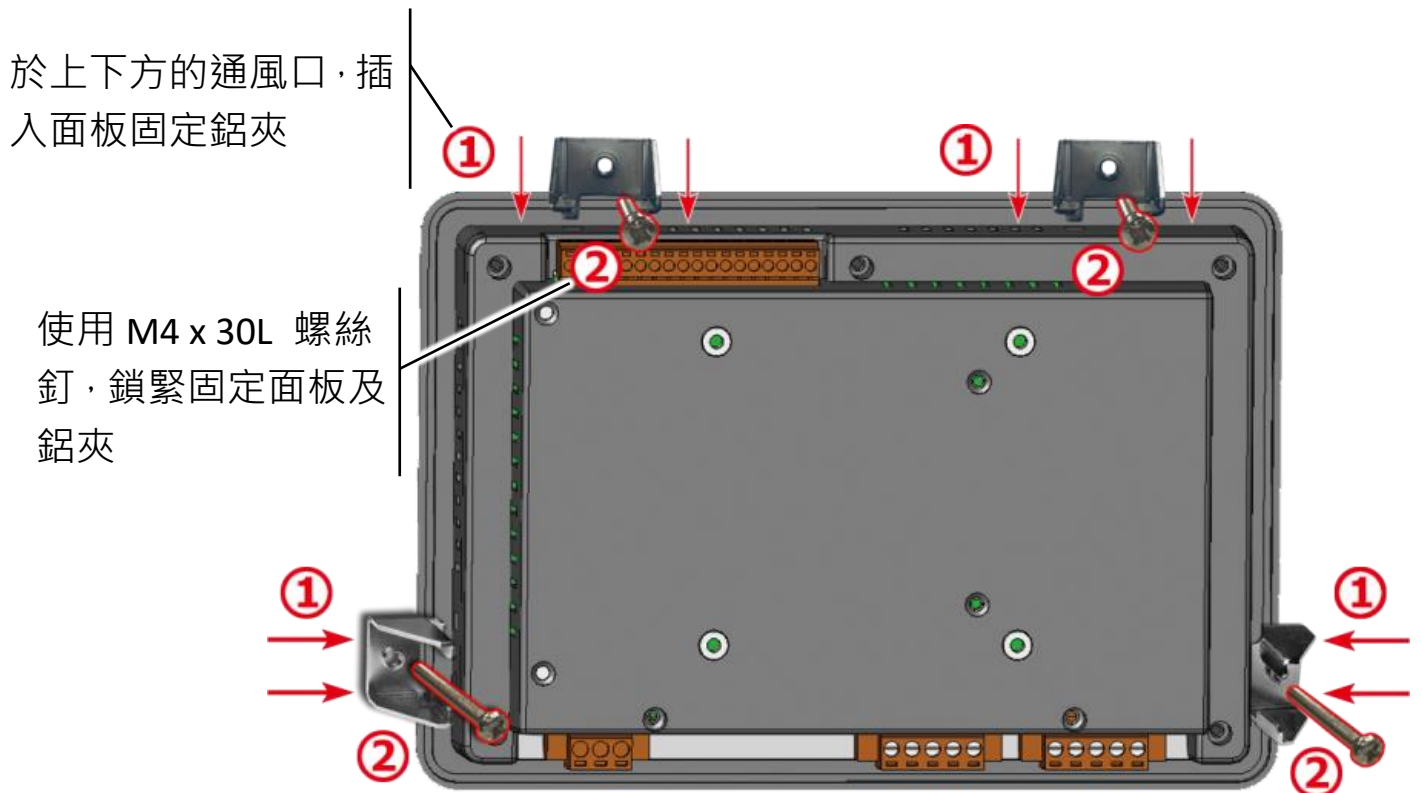3. 試著按一下 VPD-173X/173X-64 螢幕上面的圖示，VPD-173X/173X-64 會切到其他的頁面。

5 建立第一個軟體專案

在建立 VPD-173X/173X-64 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-173X/173X-64 的面板安裝(Panel Mounting)

於上下方的通風口，插
入面板固定鋁夾

使用 M4 x 30L 螺絲
釘，鎖緊固定面板及
鋁夾

參考資訊

➢ VPD-173X/173X-64 產品網頁:

http://www.icpdas.com/root/product/solutions/hmi_touch_monitor/touchpad/vpd-173n_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 2.10.24 或以上版本:

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