



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

v1.2, Apr. 2019

## What's in the box?

Thanks for buying ICPDAS VPD-173X/173X-64 device. This shipping package contains the following items:



VPD-173X/173X-64 x 1



Quick Start x 1 (This Document)



2.4 mm Screw Driver x 1



Panel Mounting Kit x 1

## Related Information

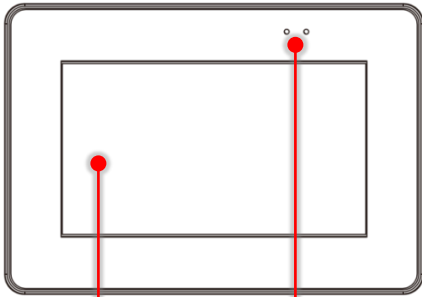
If you are new to VPD-173X/173X-64, please read the “**Chapter 3. Getting Started**” of the **TouchPAD Hardware User Manual** for detailed information about install the free development tool – HMIWorks and how to create your first project.

- Documents, such as the User Manuals, the API References, etc.: <http://ftp.icpdas.com/pub/cd/touchpad/document/>
- Free Development Software, HMIWorks v2.10.24 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

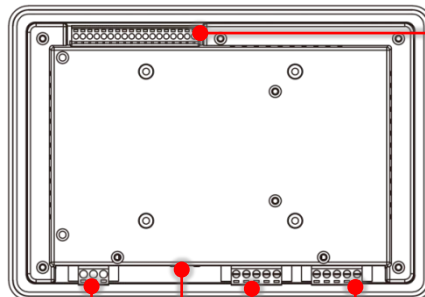
**Front View**



7" LCD Touch Panel

LED Indicator

**Rear View**



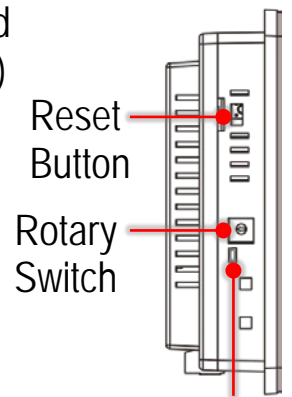
Power Port

Ethernet

Serial Port

XV-Board (optional)

**Left View**

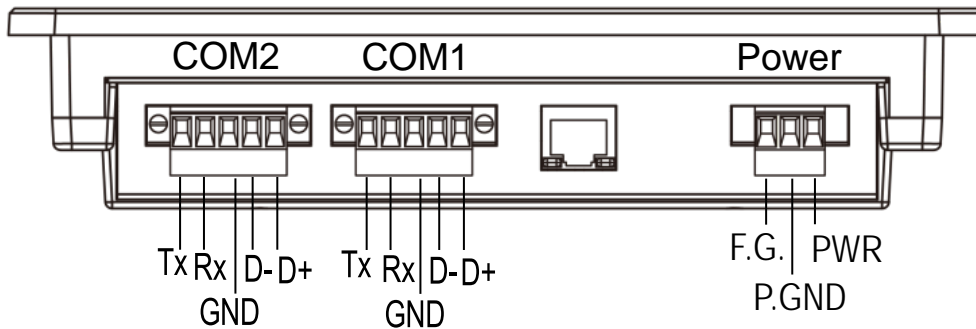


Reset Button

Rotary Switch

USB


# 2 Pin Assignments



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)

# 3 Rotary Switch & Default Settings

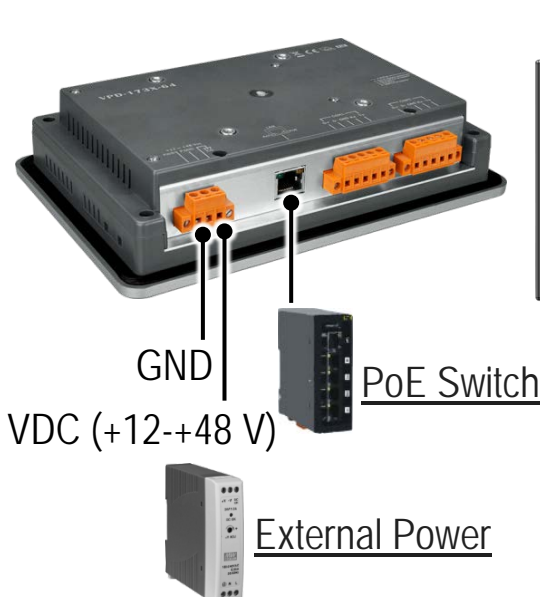
The definition of the rotary switch:

	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. <b>(Default)</b>
	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

IP Address	192.168.255.1
Subnet Mask	255.255.0.0
Gateway	192.168.0.1

# 4 First Use of the VPD-173X 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).



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

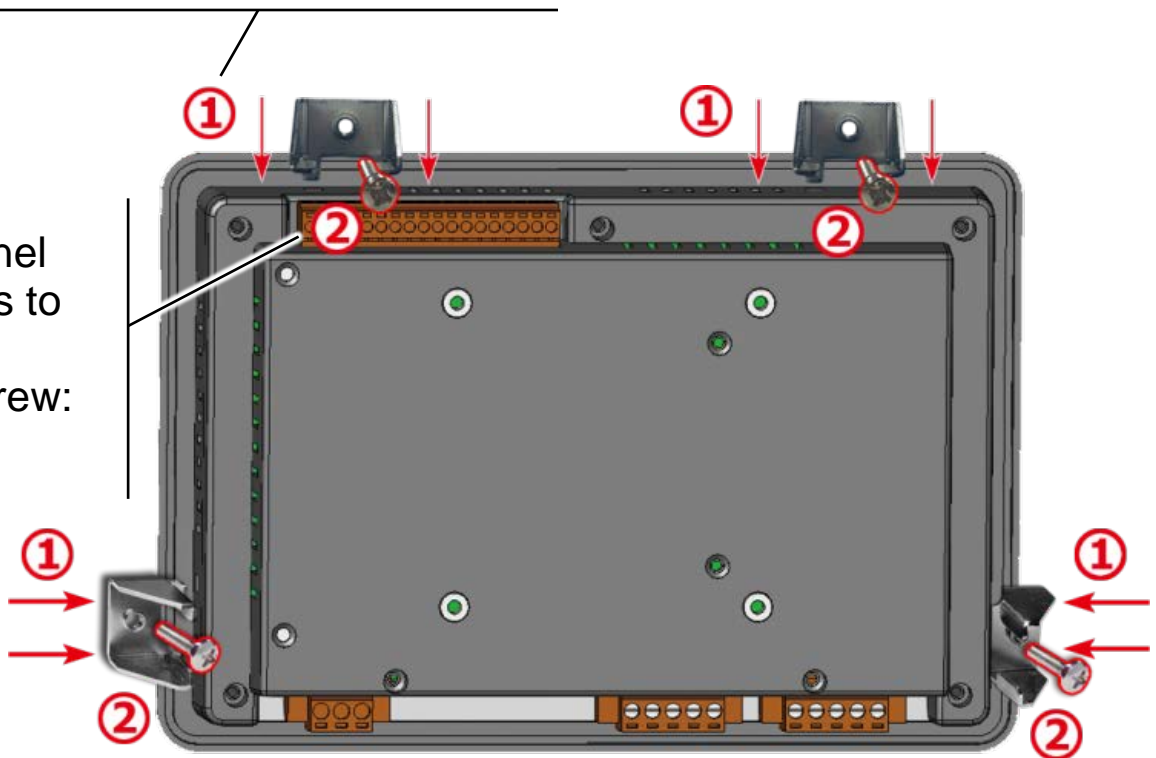
VPD-173X/173X-64 switches to the setting pages.

# 5 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 15L)



### 檢查配件

感謝您購買泓格的 VPD-173X/173X-64 產品。產品包裝內應包含下列配件：



VPD-173X/173X-64 x 1



產品須知 x 1 (本文件)



24 mm 螺絲刀 x 1



面板安裝組件 x 1

### 參考資訊

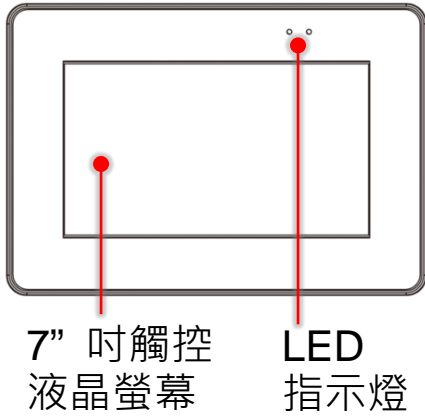
如果您是第一次使用 VPD-173X/173X-64，請參閱 **TouchPAD 硬體使用手冊** 的“**第 3 章 啟動 TouchPAD**”來了解如何安裝免費的開發軟體 HMIWorks 並建立第一個專案以及更多詳細的相關資訊。

- 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 2.10.24 或以上版本：  
<http://ftp.icpdas.com/pub/cd/touchpad/setup/>

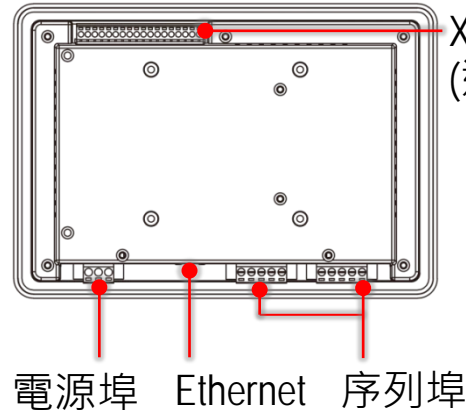
如有任何問題歡迎使用 E-mail 聯繫我們，我們將會為您提供完善的諮詢服務。

# 1 外觀

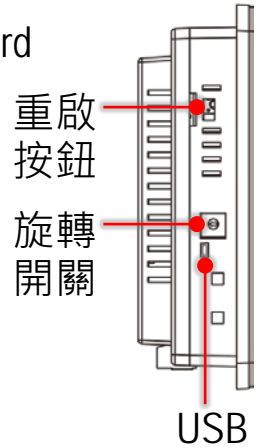
前配置圖



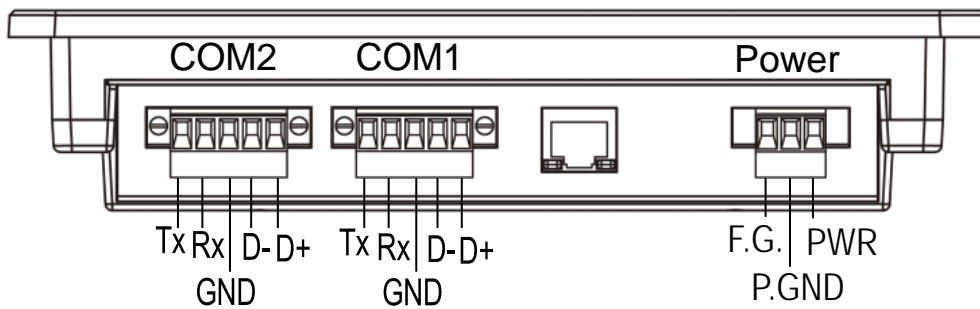
後配置圖



左配置圖



# 2 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)



# 3

## 旋轉開關及出廠預設值

旋轉開關的配置模式定義:

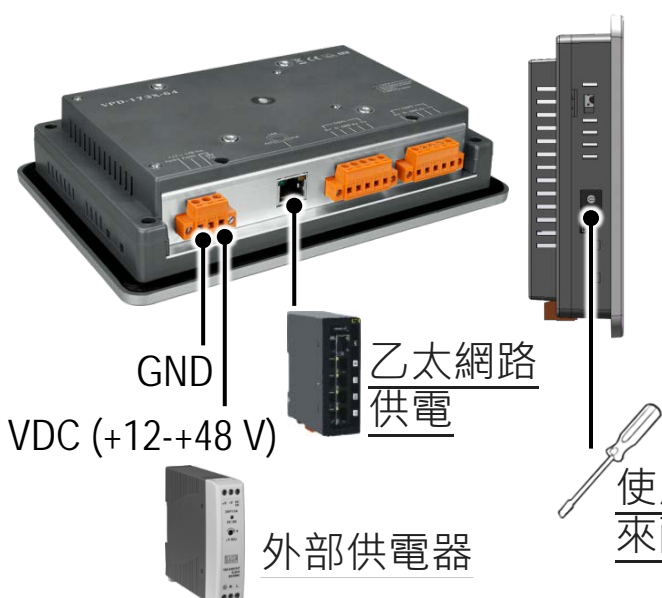
	No	模式	說明
	0	Run & Update (Ethernet)	執行/更新程式，用於程式開發階段 (能執行程式，也能進行更新)。(出廠預設)
	1	Ethernet Force Update	強制更新，當 TouchPAD 上的程式嚴重毀損時可用此模式透過 Ethernet 更新。
	2	Run Only	執行程式。
	9	USB Force Update	透過 USB 更新程式。

網路設定出廠預設如下表:

IP Address	192.168.255.1
Subnet Mask	255.255.0.0
Gateway	192.168.0.1

# 4

## 第一次使用 VPD-173X 系列



1. 如下圖所示，將電源和接地線連接完成。或是有 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)。

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左圖所示。

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 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 15L 螺絲釘，鎖緊固定面板及鋁夾

