IEi.

MPCIE-UART-KIT01
MPCIE-UART-KIT02

Quad RS-232/422/485 PCIe Mini Module

四埠 RS-232/422/485 PCIe Mini 轉接卡

Quick Installation Guide/快速安裝指南

Version 2.00   September 23, 2019

Features / 產品特色

- Supports quad RS-232/422/485 (for MPCIE-UART-KIT01)
  支援四埠 RS-232/422/485 串列式通訊埠 (MPCIE-UART-KIT01)
- Supports dual RS-232/422/485 and 16-bit GPIO (for MPCIE-UART-KIT02)
  支援雙埠 RS-232/422/485 串列式通訊埠與 16-bit 通用 IO (MPCIE-UART-KIT02)
- 128 bytes of transmit/receive FIFO
  128 bytes 發送/接收 FIFO
- High-speed 16C550/16C650/16C750/16C850 compatible UARTs
  相容高速 16C550/16C650/16C750/16C850
- Supports baud rates of 115.2K, maximum up to 1.5M
  支援高達 1.5M / 115.2K 鮑率

Packing List / 內容清單

1 x MPCIE-UART-KIT01/KIT02 PCIe Mini Module / PCIe Mini 轉接卡

4 x D-sub 9-pin male cable module/DB-9 公頭線材模組 for MPCIE-UART-KIT01 or

2 x D-sub 9-pin male cable module/DB-9 公頭線材模組 for MPCIE-UART-KIT02
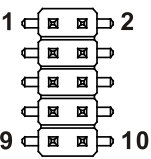
1 x QIG (Quick Installation Guide) / 快速安裝指南

Specifications / 規格
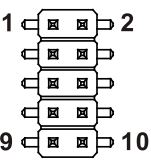
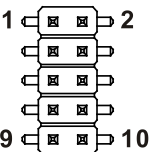| Form Factor	PCI Express Mini Card	
Main IC	PCI Express Bridge to Quad Serial Port: Fintek F81504	
	Buffer/Transceiver Series: F81439	
IO	MPCIE-UART-KIT01: 4 x RS-232/422/485 (2x5-pin header)	
	MPCIE-UART-KIT02:	2 x RS-232/422/485 (2x5-pin header)
		2 x 8-bit GPIO (2x5-pin header)
Operating Temperature	0°C ~ 60°C	
Operating Humidity	10% ~ 95%, non-condensing	
Dimensions (LxW)	51 mm x 30 mm	
Weight (GW/NW)	100 g / 50 g	

Ordering Information / 訂購資料

- MPCIE-UART-KIT01-R20:
  PCIe Mini module supports quad RS-232/422/485, full size, RoHS
- E-MPCIE-UART-KIT01-R20:
  PCIe Mini module supports quad RS-232/422/485, full size, E-Window, RoHS
- MPCIE-UART-KIT02-R20:
  PCIe Mini module supports dual RS-232/422/485 and 16-bit GPIO, full size, RoHS
- E-MPCIE-UART-KIT02-R20:
  PCIe Mini module supports dual RS-232/422/485 and 16-bit GPIO, full size, E-Window,
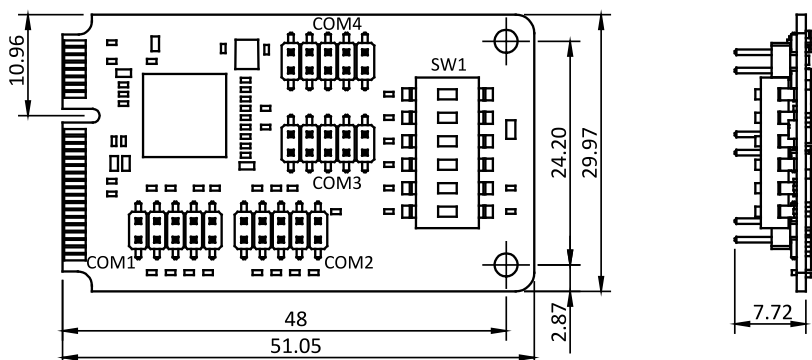 RoHS

Connector Pinouts / 連接器腳位定義

COM1/COM2/COM3/COM4: RS-232/422/485 serial port connector				
Pin	Description	Pin	Description	
1	DCDN	2	DSRN	1 ▫ ▫ 2
3	SINN	4	RTSN	
5	SOUTN	6	CTSN	
7	DTRN	8	RIN	
9	GND	10	GND	9 ▫ ▫ 10

COM3 (for MPCIE-UART-KIT02/ E-MPCIE-UART-KIT02): 8-bit GPIO connector				
Pin	Description	Pin	Description	
1	GND	2	VCC	1 ▫ ▫ 2
3	DOUT3_1	4	DOUT2_1	
5	DOUT1_1	6	DOUT0_1	
7	DIN3_1	8	DIN2_1	
9	DIN1_1	10	DIN0_1	9 ▫ ▫ 10

COM4 (for MPCIE-UART-KIT02/ E-MPCIE-UART-KIT02): 8-bit GPIO connector				
Pin	Description	Pin	Description	
1	GND	2	VCC	
3	DOUT3_2	4	DOUT2_2	
5	DOUT1_2	6	DOUT0_2	
7	DIN3_2	8	DIN2_2	
9	DIN1_2	10	DIN0_2	

SW1: Mode selection switch		* ON=0, OFF=1
1-2-3-4-5-6	Description	
100100	Four RS-422 (default)	
110100	COM1 & 2=RS-485, COM3 & 4=RS-422	
001100	COM1 & 2=RS-232, COM3 & 4=RS-422	
111100	COM1 & 2=shutdown, COM3 & 4=RS-422	
100110	COM1 & 2=RS-422, COM3 & 4=RS-485	
110110	Four RS-485	
001110	COM1 & 2=RS-232, COM3 & 4=RS-485	
111110	COM1 & 2=shutdown, COM3 & 4=RS-485	
100001	COM1 & 2=RS-422, COM3 & 4=RS-232	
110001	COM1 & 2=RS-485, COM3 & 4=RS-232	
001001	Four RS-232	
111001	COM1 & 2=shutdown, COM3 & 4=RS-232	
100111	COM1 & 2=RS-422, COM3 & 4=shutdown	
110111	COM1 & 2=RS-485, COM3 & 4=shutdown	
001111	COM1 & 2=RS-232, COM3 & 4=shutdown	
111111	All shutdown	

Dimensions / 尺吋 (Unit: mm)

Software Driver / 驅動程式安裝

All the drivers and utility for the MPCIE-UART-KIT
are available on IEI Resource Download Center.
Type MPCIE-UART-KIT and press Enter to find all
the relevant software, utilities, and documentation.
To install software from the downloaded ISO file,
mount the file as a virtual drive to view its content.
欲取得 MPCIE-UART-KIT 的驅動程式可至 IEI
Resource Download Center 下載。進入網頁後，鍵
入 MPCIE-UART-KIT 即可找到與產品相關的軟體
與文件。要從所下載的 ISO 檔安裝軟體，請將檔案
掛載為虛擬光碟機來查看其內容。

IEI Resource Download Center
https://download.ieiworld.com

The MPCIE-UART-KIT supports device drivers for the following OS:
MPCIE-UART-KIT 支援下列操作系統的專用驅動程式：

■ Windows XP　　　　■ Windows 7　　　　■ Windows 8/8.1　　　　■ Windows 10

Install the driver corresponding to your operating system before using the MPCIE-UART-KIT.
請在開始使用 MPCIE-UART-KIT 前依據您的操作系統安裝對應的驅動程式。

Installing drivers in Windows XP

In Windows XP systems, the driver of the MPCIE-UART-KIT must be installed manually by
following the steps below. / 使用 Windows XP 系統時需手動進行安裝驅動程式，其步驟如下。

1. Go to Device Manager. Right-click the **PCI Serial Port** that has question marks next to it,
    and select **Update Driver** in the pop-up menu.
    進入裝置管理員。用右鍵點選有驚嘆號的 **PCI 序列連接埠**並在彈出視窗上選**更新驅動程式**

2. The Hardware Update Wizard appears. Select **Yes, now and every time I connect a
    device** to allow Window to search for software, and click **Next** to continue.
    出現硬體更新精靈視窗問及是否允許連線時，選擇**是，現在以及每次我連接了一個裝置時**。
    點選**下一步**繼續。

3. Select **Install from a list or specific location (Advanced)**, and click **Next** to continue.
    點選**從清單或特定位置安裝(進階)**。點選**下一步**繼續。

4. Click **Browse**. Select the proper driver folder in the location browsing window and click
    OK.
    點選**瀏覽**。於彈出的"瀏覽資料夾"視窗選擇存有驅動程式的資料夾，選定後點選**確定**。

5. Click **Next** to start installing the driver.
    點選**下一步**，系統便會開始安裝驅動程式。

6. After the driver installation process is complete, a confirmation screen appears. Click
    Finish to exit the program.
    驅動程式安裝完成後會出現**正在完成硬體更新精靈**，點選**完成**來退出程式。

Safety Instructions / 安全守則

⚠ Warning! To prevent the system from overheating, do not operate it in an area that exceeds the maximum operating temperature described in the user manual. Ultimate disposal of this product should be handled according to all national laws and regulations.

⚠ 警告！為防止系統過熱，不要在使用手冊上記載的產品工作溫度範圍之外操作此系統。本產品的廢棄處理應根據該國家的法律和規章進行。

IEI Support URL / IEI 線上諮詢

http://new.ieiworld.com/tw/online_support_form

Compliance / 安規

CE

This equipment has been tested and found to comply with specifications for CE marking. If the user modifies and/or installs other devices in the equipment, the CE conformity declaration may no longer apply.

FC

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

According to the requirement of the WEEE legislation the following user information is provided to customers for all branded IEI Electronics products subject to the WEEE directive.

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop o- your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.