PCIe Mini Module supports Quad RS-232/422/485 or Dual RS-232/422/485 and 16-bit GPIO, Full Size, RoHS

MPCIE-UART-KIT01
MPCIE-UART-KIT02

Quick Installation Guide

Version 1.0

November 9, 2015

Package List

MPCIE-UART-KIT01/MPCIE-UART-KIT02 package includes the following items:

- 1 x MPCIE-UART-KIT01/MPCIE-UART-KIT02 PCIe Mini module
- 2 x D-sub 9-pin male cable module
- 1 x QIG

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Features

- Supports quad RS-232/422/485 (for MPCIE-UART-KIT01) or supports dual RS-232/422/485 and 16-bit GPIO (for MPCIE-UART-KIT02)
- 128 bytes of transmit/receive FIFO
- High-speed 16C550/16C650/16C750/16C850 compatible UARTs
- Supports baud rates of 115.2K, maximum up to 1.5M
- All GPIO supports digit IO for input/output control, output data contol and input status (MPCIE-UART-KIT02 only)
- Supports high/low level/pulse, open drain/push pull function selection (MPCIE-UART-KIT02 only)

Specifications

- Form Factor: PCI Express Mini Card
- PCI Express Bridge to Quad Serial Port: Fintek F81504
- Buffer/Transceiver Series: F81439
- IO:
  - ≫ For MPCIE-UART-KIT01: 4 x RS-232/422/485 (2x5-pin header)
  - ≫ For 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

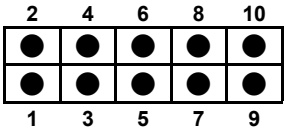
- **MPCIE-UART-KIT01-R10:**
  PCIe Mini module supports quad RS-232/422/485, full size, RoHS

- **MPCIE-UART-KIT02-R10:**

  PCIe Mini module supports dual RS-232/422/485 and 16-bit GPIO, full size, RoHS

Jumper Settings and Connectors

COM1/COM2/COM3/COM4: RS-232/422/485 serial port connector			
PIN NO.	**DESCRIPTION**	**PIN NO.**	**DESCRIPTION**
1	DCDN	2	DSRN
3	SINN	4	RTSN
5	SOUTN	6	CTSN
7	DTRN	8	RIN
9	GND	10	GND

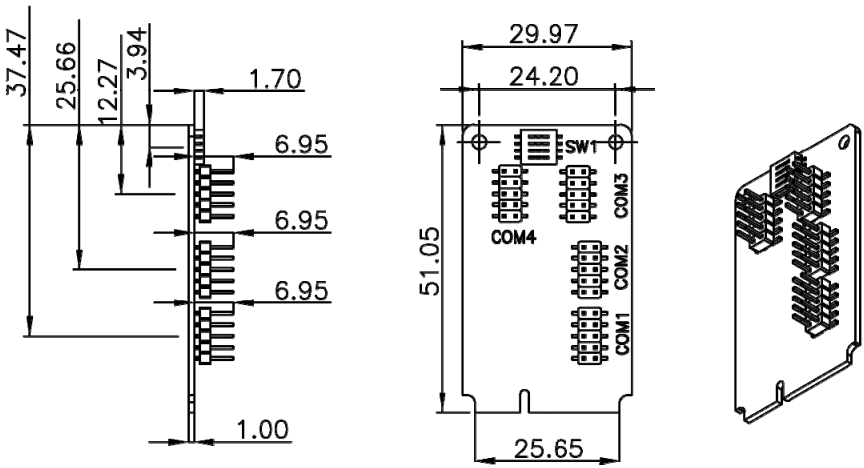


COM3 (for MPCIE-UART-KIT02-R10): 8-bit GPIO connector			
PIN NO.	**DESCRIPTION**	**PIN NO.**	**DESCRIPTION**
1	GND	2	VCC
3	GPIO7	4	GPIO6
5	GPIO5	6	GPIO4
7	GPIO3	8	GPIO2
9	GPIO1	10	GPIO0

COM4 (for MPCIE-UART-KIT02-R10): 8-bit GPIO connector			
PIN NO.	**DESCRIPTION**	**PIN NO.**	**DESCRIPTION**
1	GND	2	VCC
3	GPIO15	4	GPIO14
5	GPIO13	6	GPIO12
7	GPIO11	8	GPIO10
9	GPIO9	10	GPIO8

SW1: Mode selection switch * ON=0, OFF=1		
4-3-2-1	**DESCRIPTION**	
0000	Four RS-422 (default)	
0001	COM1 & 2=RS-485, COM3 & 4=RS-422	
0010	COM1 & 2=RS-232, COM3 & 4=RS-422	
0011	COM1 & 2=shutdown, COM3 & 4=RS-422	
0100	COM1 & 2=RS-422, COM3 & 4=RS-485	
0101	Four RS-485	
0110	COM1 & 2=RS-232, COM3 & 4=RS-485	
0111	COM1 & 2=shutdown, COM3 & 4=RS-485	
1000	COM1 & 2=RS-422, COM3 & 4=RS-232	
1001	COM1 & 2=RS-485, COM3 & 4=RS-232	
1010	Four RS-232	
1011	COM1 & 2=shutdown, COM3 & 4=RS-232	
1100	COM1 & 2=RS-422, COM3 & 4=shutdown	
1101	COM1 & 2=RS-485, COM3 & 4=shutdown	
1110	COM1 & 2=RS-232, COM3 & 4=shutdown	
1111	All shutdown	

Board Layout: Jumper and Connector Locations



(Unit: mm)