

M.2 B Key & M Key Module
Supports Four RS-232/422/485 Ports, RoHS

iM2-UART-4P

Quick Installation Guide

Version 1.0

August 7, 2023

Package Contents

iM2-UART-4P package includes the following items:

- 1 x iM2-UART-4P M.2 module
- 4 x DB-9 male cable
- 1 x QIG (Quick Installation Guide)



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Features:

- M.2 B Key + M Key card supports four RS-232/422/485 ports
- 128-byte transmit/receive FIFO
- High-speed 16C550/16C650/16C750/16C850 compatible UARTs
- Baud rate supports 115.2K, up to 1.5M

Specifications:

- **Form Factor:**
M.2 2280 B+M key
- **Chip:**
Fintek F81504 (PCI Express bridge to quad serial port)
- **Buffer/Transceiver:**
Fintek F81439
- **I/O:**
4 x RS-232/422/485 pin header (2x5 pin)
- **Operating Temperature:**
0°C ~ 60°C
- **Storage Temperature:**
-20°C ~ 70°C
- **Operating Humidity:**
5% ~ 95%, non-condensing
- **Dimensions (LxW):** 80 mm x 22 mm
- **Weight:** 10 g
- **Safety:** CE/FCC compliant

Ordering Information

- **iM2-UART-4P-R10:** M.2 B Key & M Key module supports four RS-232/422/485 ports, RoHS

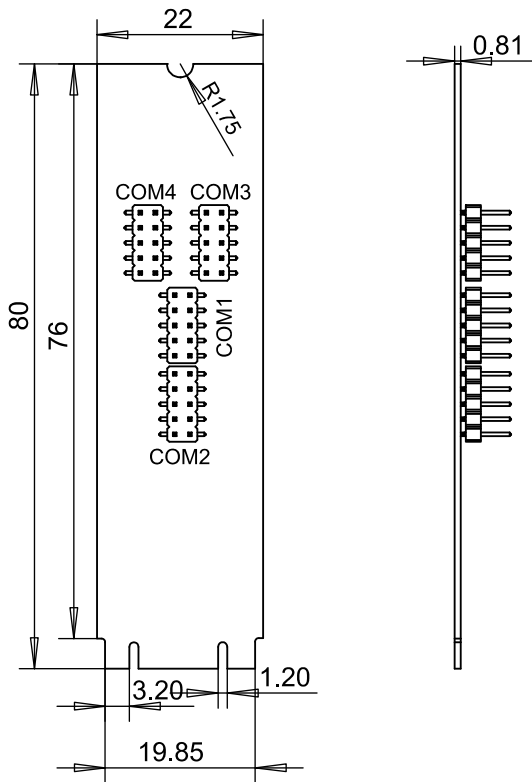
Connector Pinouts

COM1, COM2, COM3, COM4 : RS-232/422/485 Connectors			
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

<p>RS-422</p> <p>D-SUB 9PIN MALE MODE 00</p>	<p>RS-485</p> <p>D-SUB 9PIN MALE MODE 10/11</p>	<p>RS-232</p> <p>D-SUB 9PIN MALE MODE 01</p>
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SW1: RS-232/422/485 Mode Select Switch	
1-2-3-4-5-6	DESCRIPTION
100100	4 RS422 (default)
110100	COM1,2=RS485 ; COM3,4=RS422
001100	COM1,2=RS232 ; COM3,4=RS422
111100	COM1,2=shutdown ; COM3,4=RS422
100110	COM1,2=RS422 ; COM3,4=RS485
110110	4 RS485
001110	COM1,2=RS232 ; COM3,4=RS485
111110	COM1,2=Shutdown ; COM3,4=RS485
100001	COM1,2=RS422 ; COM3,4=RS232
110001	COM1,2=RS485 ; COM3,4=RS232
001001	4 RS232
111001	COM1,2=shutdown ; COM3,4=RS232
100111	COM1,2=RS422 ; COM3,4=Shutdown
110111	COM1,2=RS485 ; COM3,4=Shutdown
001111	COM1,2=RS232 ; COM3,4=Shutdown
111111	All shutdown

Board Layout and Connector Locations



(Unit: mm)