USB to UART Module,
4-port RJ-45 COM, RS-232/422/485 Selectable, RoHS

iUCOM-4R

Quick Installation Guide
Version 1.0

June 30, 2023

Package List

iUCOM-4R package includes the following items:
- 1 x iUCOM-4R USB to UART module
- 1 x USB to USB cable (p=2.0)
- 1 x USB to USB cable (p=2.54)
- 1 x QIG (Quick Installation Guide)

Specifications

- Convertor Chip:
  WCH CH344 USB to quad serial port convertor chip
- Buffer/Transceiver Series:
  Fintek F81435
- Compatible UARTs: 16C550 / 16C650 / 16C750 / 16C850 UART
- FIFO: 1024 bytes transmit, 512 bytes receive
- Baud Rate: 115.2K, up to 6M
- Interface (covert from):
  USB 2.0 (1x4 pin, p=2.0mm)
- I/O Interface (convert to):
  4 x RS-232/422/485 serial port (RJ-45)
- Supported OS:
  Windows 11/10/8.1/8/7/VISTA/XP/2000, 32-bit/64-bit
  Server 2022/2019/2016/2012/2008/2003
  Linux 32-bit/64-bit
- Operating Temperature: 0°C ~ 60°C
- Storage Temperature: -10°C ~ 70°C
- Operating Humidity: 10% ~95%, non-condensing
- Dimensions: 94.46 mm x 38.00 mm

Ordering Information
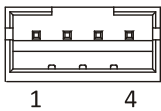
- **32013-001400-100-RS:** RJ-45 to DB-9 cable, 300mm

All the utility for the iUCOM-4R are available on IEI Resource Download Center. Type iUCOM-4R 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.
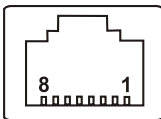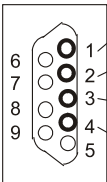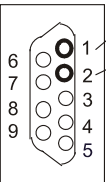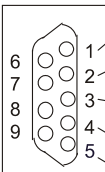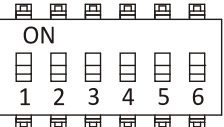
IEI Resource Download Center

https://download.ieiworld.com

Connector Pinouts

CN1: USB connector (4-pin, p=2.0 mm)				
Pin	Description	Pin	Description	
1	GND	3	USB_DATA-	
2	USB_DATA+	4	VCC5V	

COM1, COM2, COM3, COM4: External RS-232/422/485 connectors				
Pin	Description	Pin	Description	
1	RI	5	RTS	
2	DTR	6	SIN	
3	CTS	7	DSR	
4	SOUT	8	DCD	

RS-422

TX-(TXD422#)
TX+(TXD422+)
RX+(RXD422+)
RX-(RXD422#)

6 7 8 9 / 1 2 3 4 5

D-SUB 9PIN MALE
MODE 00

RS-485

TX-(TXD485#)
TX+(TXD485+)

6 7 8 9 / 1 2 3 4 5

D-SUB 9PIN MALE
MODE 10/11

RS-232

DCD(1)
DSR(6)   SIN(2)
RTS(7)   SOUT(3)
CTS(8)   DTR(4)
RI(9)   GND(5)

6 7 8 9 / 1 2 3 4 5

D-SUB 9PIN MALE
MODE 01

SW1: COM port mode switch							
	COM 1 & COM2			COM3 & COM4			
SW1 Pin	1	2	3	4	5	6	
RS232	on	on	off	on	on	off	
RS422	off	off	off	off	off	off	
RS485	off	on	off	off	on	off	

Use pin 1~3 to control COM1 + COM2; use pin 4~6 to control COM3 + COM4. The mode of these two sets of COM ports can be setup separately. For example: COM1&2 as RS232 and COM3&4 as RS485, set to: on-on-off-off-on-off.

Board Layout & Connector Locations

(Unit: mm)