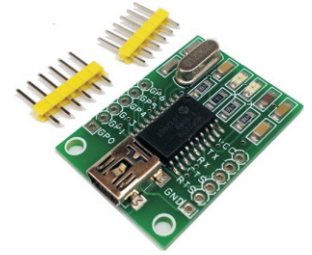


## USB to UART Converter with GPIO ( Based on MCP220)

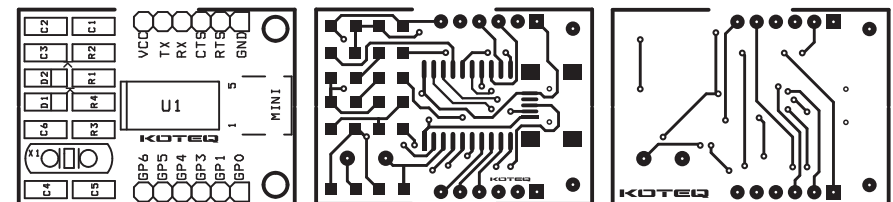
The Module is based on The MCP2200, which is a USB-to-UART serial converter which enables USB connectivity in application that have a UART interface. The device reduces external components by integrating the USB termination resistors. The MCP2200 also has 256-bytes of integrated user EEPROM. The MCP2200 has eight general purpose input / output pins. Four of the pins have alternate functions to indicate USB and communication status.



### Features

- Supply 3- 5V DC
- On Board TX & RX LED
- USB activity LED outputs (TxLED and RxLED)
- Mini USB Interface
- 6 + 6 PIN Header Connector for I/O and RX-TX Signals
- UART signal polarity option General Purpose Input/output (GPIO) Pins
- Eight (8) general purpose I/O pins
- Supports Full-Speed USB (12 Mb/s)
- Implements USB Protocol Composite Device CDC Device (communications and control) Class 02h - CDC: USB-to-UART communications and I/O control
- Class 03h - HID: I/O control, EEPROM access, and initial configuration
- 128 byte buffer to handle data throughput at any UART baud rate
- 64 byte transmit
- 64 byte receive
- Fully configurable VID and PID assignments and string descriptors
- Bus Powered or self-powered USB Driver and Software Support
- Royalty-free drivers for Virtual Com Port (VCP)
- Windows XP (SP2 and later)/Vista/7
- Configuration utility for initial configuration
- Universal Asynchronous Receiver/Transmitter (UART)
- Support baud rates: 300 - 1000k (baud)
- Hardware flow control
- 256 bytes of user EEPROM
- SSPND output pin
- ULOAD output pin (indicates if requested current was allowed).
- Oscillator input: 12 MHZ

BOM			
SR	QNTY.	REF	DESCRIPTIONS
1	2	CN1,CN2	6 PIN HEADER CONNECTOR
2	1	CN3	MINI USB CONNECOR
3	3	C1,C2,C6	100N (0.1uF) SMD1205
4	1	C3	470nF SMD 1206
5	2	C4,C5	15pF SMD 1206
6	1	D1	LED-RX SMD 1206
7	1	D2	LED-TX SMD1206
8	3	R1,R2,R3	470E SMD 1206
9	1	R4	10K SMD1206
10	1	U1	MCP2200
11	1	X1	12MHZ CRYSTAL



# USB to UART Converter with GPIO

