

## IC USB TO I2C/UART 14SOIC

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	SOIC-14
Product Type	Interface ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for MCP2221AT-I/SL or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The MCP2221A is a USB-to-UART/I2C serial converter which enables USB connectivity in applications that have a UART and I2C interfaces. The device reduces external components by integrating the USB termination resistors and the oscillator needed for USB operation. The MCP2221A also has four GP pins providing miscellaneous functionalities (GPIO, USBCFG, SSPND, Clock Output, ADC, DAC, interrupt detector). The MCP2221A is identical to the MCP2221 in all aspects except for the maximum supported baud rate of the UART, which has been increased from 115200 (MCP2221) to 460800 (MCP2221A). All MCP2221 USB Drivers and Software can be used for the MCP2221A.

## Features

Universal Serial Bus (USB)

Supports full-speed USB (12 Mb/s)

Implements USB protocol composite device:

Communication Device Class (CDC) for communications and configuration

Human Interface Device (HID) for I2C™, chip control and configuration

128-byte Buffer to handle data throughput at any UART baud rate:

64-byte Transmit

64-byte Receive

Human Interface Device (HID) for both I2C™ communication and control.

64 byte buffer to handle data throughput at any I2C™ baud rate

Fully configurable VID and PID assignments, and string descriptors

Bus-powered or self-powered

USB 2.0 Compliant

USB Driver and Software Support

CDC and Universal Asynchronous Receiver/Transmitter (UART) Options

I2C™/SMBus

SMBus Master

General Purpose Input/Output (GPIO) Pins

Highly Configurable

Operating voltage: 3.0 – 5.5V

Electrostatic Discharge (ESD) protection:

4 kV Human Body Model (HBM)

Industrial (I) Operating Temperature: -40°C to +85°C

## Related Products



[MCP23008T-E/SO](#)

Microchip Technology, Inc  
SOIC-18



[MCP2551-I/P](#)

Microchip Technology, Inc  
PDIP-8



[MCP25625T-E/ML](#)

Microchip Technology, Inc  
QFN-28



[MCP2210-I/SO](#)

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SOP-20



[MCP23008T-E/ML](#)

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[MCP2515T-I/SO](#)

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SOIC-18



[MCP2515T-I/ST](#)

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TSSOP-20



[MCP2562FDT-H/SN](#)

Microchip Technology, Inc  
SOIC-8