

## 阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

## Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .



# MCP2221A

In Production

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

Parameter Name	Value
Description	USB-to-I2C/UART/SMBus Protocol Converter with GPIO (Master Mode)
Upstream Port	USB 2.0
USB Speed	Full Speed
Downstream Ports	I2C/SMBus, UART
MCU Interface	I2C/SMBus, UART
Tx Buffer Size (bytes)	64
Rx Buffer Size (bytes)	64
GPIOs	4
Op Voltage (V)	3.0 to 5.5
Temp Range Min (°C)	-40
Temp Range Max (°C)	85