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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