



# 180223247 Updated CP2102N Datasheet

**PCN Issue Date:** 2/23/2018

**Effective Date:** 5/29/2018

**PCN Type:** Datasheet

## Description of Change

The CP2102N datasheet has been updated to revision 1.2 with the following changes.

Note that if VIO and VBUS are first applied simultaneously to the device, or if VBUS is applied and VIO is not present, a resistor divider on VBUS is needed to ensure reliability.

Changes include:

- Added a note to Table 1.1 Product Selection Guide on page 2 to clarify the multiple types of pin 1 indicators for each package.
- Added a description of the RSTb pin behavior during reset to 2.1 Power and as a note on 3.1.3 Reset and Supply Monitor.
- Updated the note regarding the resistor divider on VBUS, added the resistor divider to Figure 2.5 Bus-Powered Connection Diagram for USB Pins on page 8, and duplicated the note to this area in 2.3 USB.
- Added the resistor divider on VBUS to Figure 2.4 Battery Charging Connection Diagram on page 7.
- Updated Thermal Resistance to Thermal Resistance (Junction to Ambient) and added Thermal Resistance (Junction to Case) and Thermal Characterization Parameter (Junction to Top) for all packages to 3.2 Thermal Conditions.
- Updated 4.3.4 Battery Charging (CHREN, CHR0, and CHR1) to include information about configuring GPIO for battery charging.
- Updated 4.3.7 Hardware Handshaking (RTS and CTS) and 4.3.12 RS485 (RS485) with a note that RTS control signaling and RS485 features are not supported below 1200 baud.
- Added Z and Y dimensions and updated Note 3 in Table 6.1 QFN28 Package Dimensions on page 32.
- Updated revision history format and moved table of contents.

## Reason for Change

Clarifications to datasheet content, as well as new resistor divider requirement for some use cases.

## Impact on Form, Fit, Function, Quality, Reliability

No impact to form, fit, function, quality, or reliability.

## Product Identification

Existing Part #  
CP2102N-A01-GQFN20  
CP2102N-A01-GQFN20R  
CP2102N-A01-GQFN24  
CP2102N-A01-GQFN24R  
CP2102N-A01-GQFN28  
CP2102N-A01-GQFN28R

**Last Date of Unchanged Product:** 5/29/2018

## Qualification Samples

n/a

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### Qualification Data

n/a



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**Silicon Laboratories Inc.**  
**400 West Cesar Chavez**  
**Austin, TX 78701**

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