

## Product Overview

### FUSB302B: Programmable USB Type-C Controller with PD (Default SNK)

For complete documentation, see the data sheet.

The FUSB302B targets system designers looking to implement a DRP/SRC/SNK USB Type-C connector with low amount of programmability. The FUSB302B enables the USB Type-C detection including attach, and orientation. The FUSB302B integrates the physical layer of the USB BMC Power Delivery protocol to allow up to 100 W of power and role swap. The BMC PD block enables full support for alternative interfaces of the Type-C specification. Reference code is available for the FUSB302B for easy implementation of Type-C and USB BMC Power Delivery protocol across several embedded controller platforms. Click on the Software link below.

### Features

- Dual-Role Functionality with Autonomous DRP Toggle
- Ability to connect as either a host or a device based on what has been attached.
- Software configurable either as a dedicated host, dedicated device, or dual role.
- Dedicated devices can operate both on a Type-C receptacle or a Type-C plug with a fixed CC and VCONN channel.
- Full Type-C 1.2 Support. Integrates the following functionality of the CC pin
- Attach/Detach Detection as Host
- Current Capability Indication as Host
- Current Capability Detection as Device
- Audio Adapter Accessory Mode
- Debug Accessory Mode

For more features, see the data sheet

### Applications

- This product is general usage and suitable for many different applications.

| Part Electrical Specifications |                                                         |        |                                   |                                      |                         |              |
|--------------------------------|---------------------------------------------------------|--------|-----------------------------------|--------------------------------------|-------------------------|--------------|
| Product                        | Compliance                                              | Status | Mode Support                      | Power Delivery Communication Support | IC Features             | Package Type |
| FUSB302B01MPX                  | Pb-free<br>Halide free                                  | Active | DRP<br>DFP (Source)<br>UFP (Sink) | Yes                                  | Debug Accessory Support | WQFN-14      |
| FUSB302B10MPX                  | Pb-free<br>Halide free                                  | Active | DRP<br>UFP (Sink)<br>DFP (Source) | Yes                                  | Debug Accessory Support | WQFN-14      |
| FUSB302B11MPX                  | Pb-free<br>Halide free                                  | Active | UFP (Sink)<br>DFP (Source)<br>DRP | Yes                                  | Debug Accessory Support | WQFN-14      |
| FUSB302BMPX                    | Pb-free<br>Halide free                                  | Active | UFP (Sink)<br>DRP<br>DFP (Source) | Yes                                  | Debug Accessory Support | WQFN-14      |
| FUSB302BUCX                    | Pb-free<br>Halide free                                  | Active | DRP<br>DFP (Source)<br>UFP (Sink) | Yes                                  | Debug Accessory Support | WLCSP-9      |
| FUSB302BVMPX                   | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active |                                   |                                      |                         | WQFN-14      |

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

Created on: 10/21/2019