

Product Overview

FUSB302: Programmable USB Type-C Controller with PD

For complete documentation, see the data sheet.

The FUSB302 targets system designers looking to implement a DRP/SRC/SNK USB Type-C connector with low amount of programmability.

The FUSB302 enables the USB Type-C detection including attach, and orientation. The FUSB302 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 FUSB302 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 1.1 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
FUSB302MPX	Pb-free Halide free	Active	UFP (Sink) DRP DFP (Source)	Yes	Debug Accessory Support	WQFN-14
FUSB302UCX	Pb-free Halide free	Active	DRP UFP (Sink) DFP (Source)	Yes	Debug Accessory Support	WLCSP-9

For more information please contact your local sales support at www.onsemi.com.

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