

Product Overview

FUSB302T: Programmable USB Type-C Controller with PD (Default SRC)

For complete documentation, see the [data sheet](#).

The FUSB302T targets system designers looking to implement a USB Type-C wall charger or Travel Adaptor. In addition to the default SRC function, the device supports DRP/ SRC/ SNK with low amount of programmability. The FUSB302T enables the USB Type-C detection including attach/detach, and orientation. The FUSB302T 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 FUSB302T 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
- Audio Adapter Accessory Mode
- Debug Accessory Mode
- USB Power Delivery (PD) 2.0, Version 1.1 Support
- Active Cable Detection
- Attach/Detach Detection as Host

For more features, see the [data sheet](#)

Benefits

- Applicable to many end systems
- Autonomous detection
- Offers programmability
- Flexibility
- Meets compliance standards
- Supports USB-C audio
- Supports accessory detection
- Meets compliance standards
- Supports advance cable solutions

Applications

- Automotive
- PCs
- Mobile
- Wired Communications

End Products

- Desktop PC
- Infotainment
- Mobile handsets
- Tablets
- Travel adapters

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Mode Support	Power Delivery Communication Support	IC Features	Package Type
FUSB302TMPX	0.33	Pb-free Halide free non AEC-Q and PPAP	Active	DFP (Source) DRP UFP (Sink)	Yes	Autonomous DRP Toggle	WQFN-14
FUSB302TV01MPX	0.429	AEC Qualified PPAP Capable Pb-free Halide free	Active	DFP (Source) DRP UFP (Sink)	Yes	Autonomous DRP Toggle	WQFN-14
FUSB302TV10MPX	0.429	AEC Qualified PPAP Capable Pb-free Halide free	Active	DFP (Source) DRP UFP (Sink)	Yes	Autonomous DRP Toggle	WQFN-14
FUSB302TV11MPX	0.429	AEC Qualified PPAP Capable Pb-free Halide free	Active	DFP (Source) DRP UFP (Sink)	No	Autonomous DRP Toggle	WQFN-14
FUSB302TVMPX	0.429	AEC Qualified PPAP Capable Pb-free Halide free	Active	DFP (Source) DRP UFP (Sink)	Yes	Autonomous DRP Toggle	WQFN-14

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Created on: 10/24/2021