Product Overview

FUSB302TVMPX: 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
• Supports accessory detection
• 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 Communication

End Products

• Desktop PCs
• Infotainment
• Mobile Handsets
• Tablets
• Travel Adapters

Part Electrical Specifications

Product	Pricing ($/Unit)	Compliance	Status	Mode Support	Power Delivery Communication Support	IC Features	Package Type
FUSB302TVMPX	0.572	AEC Qualified PPAP Capable Pb-free Halide free	NEW	DFP (Source) DRP UFP (Sink)	Yes	Autonomous DRP Toggle	WQFN-14

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

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