

Product Overview

FUSB303BTMX: Autonomous USB Type-C Port Controller with I²C and GPIO Control

For complete documentation, see the data sheet.

The FUSB303 device is a fully autonomous USB Type-C™ controller optimized for 15 W or less applications. The FUSB303 offers CC logic detection for Source Port role, Sink Port role, DRP, and accessory detection support, as well as Dead Battery support as defined in USB-C specifications. The FUSB303 features configurable address I2C access to support multiple ports per system or it can operate autonomously configured by just pins. The FUSB303 features ultra-low power during operation, and an ultra-thin, 12-Lead QFN package.

Features

- Fully Autonomous USB-C™ Port Controller
- Supports Latest Type-C™ Specification Release 1.3
- Source, Sink, and DRP Port role Configuration with Optional Accessory Support
- Try.SRC and Try.SNK modes for Preferring Source Role or Sink Role Respectively
- Typical Low Power Operation: ICC < 10µA
- Max 28 V DC Tolerance on ID, VBUS_DET, CC1 and CC2
- Dead Battery Support (Sink Port role when No Power Applied)
- GPIO and I2C Configuration
- 4 kV HBM ESD Protection for Connector Pins

Benefits

- Minimal or no processor interaction needed
- Meets the latest USB-C specification
- Flexible modes depending on end product
- Features to create preferred device modes
- Low power consumption
- Protects against erroneous shorting between leads
- Allows devices with dead batteries to still connect to a supply

Applications

- USB-C™ Port Controller

End Products

- Smartphones
- Tablets
- Laptops
- Accessories
- Industrial

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Mode Support	Power Delivery Communication Support	IC Features	Package Type
FUSB303BTMX	0.1716	Pb-free Halide free non AEC-Q and PPAP	Active	DFP (Source) DRP UFP (Sink)	No	State machine based	X2QFN-12

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

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