

Product Overview

FUSB307B: USB Type-C Port Controller with USB-PD

For complete documentation, see the data sheet.

The FUSB307B targets system designers looking to implement up to four USB Type-C port controllers (TCPC) with USB-PD capabilities. This solution provides integrated Type-C Rev 1.3 detection circuitry enabling manual attach/detach detection. Time critical Power Delivery functionality is handled autonomously, offloading the μ Processor or Type-C Port Manager (TCPM). The FUSB307B complies with the USB-PD Interface Specification Rev 1.0 as a TCPC for a standardized interface with TCPM.

Features

- USB-PD Interface Specification Rev 1.0 Ver. 1.2 Compatible
- USB Type-C Rev 1.3 Compatible
- USB-PD Rev3.0 Ver. 1.1 Compatible: Fast Role Swap, Sink Transmit, Extended Data Messages (Chunked)
- USB-PD Interface Specification Support: Automatic GoodCRC Packet Response, Automatic Retries of Sending Packet, All SOP* Types Supported
- VBUS Source and Sink Control
- Integrated 3 W Capable VCONN to CCx Switch
- 10-bit VBUS ADC
- Programmable GPIOs
- 4 Selectable I2C Addresses
- Dead Battery Operation: Powered from VBUS; LDO Output Provides Power to TCPM

For more features, see the data sheet

Applications

- Portable & Wireless
- Automotive
- Consumer

End Products

- Smartphones
- Tablets
- Digital Cameras
- Desktops
- Laptops

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Mode Support	Power Delivery Communication Support	IC Features	Package Type
FUSB307BMPX	0.49	Pb-free Halide free non AEC-Q and PPAP	Active	DRP UFP (Sink)	Yes	-	WQFN-16
FUSB307BVMPX	0.686	AEC Qualified PPAP Capable Pb-free Halide free	Active				WQFN-16

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