

# FUSB15200 Dual Port USB Type-C/PD Controller Start-Up Guide

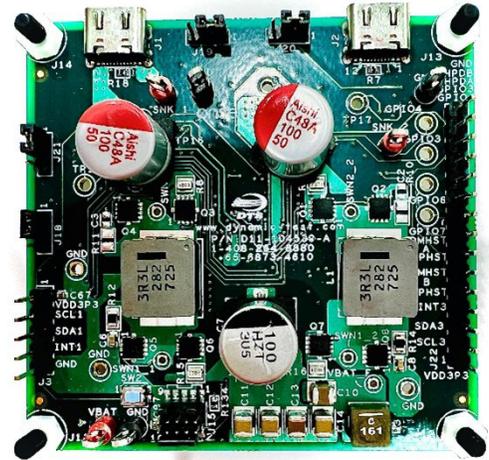
## FUSB15200EVBSUG

### Introduction

The FUSB15200 EVB along with the firmware binary provided in the release package will allow customer a complete evaluation of the Type-C/PD solution as stand-alone controller. This document aimed to provide user a faster bring-up to quickly exercise FUSB15200 EVB with the device characteristic listed in Table 1.

**Table 1. FUSB15200 SUPPORTED DEVICE CHARACTERISTIC**

Feature	Supported Type	Firmware
Type-C	DRP	Yes
PD	DRP	Yes
Advertised PDOs	PDO Type	Description
PDO 1	Fixed	5 V / 3 A
PDO 2	Fixed	9 V / 3 A
PDO 3	Fixed	15 V / 3 A
PDO 4	Fixed	20 V / 3 A
PDO 5	PPS	3.3 V – 21 V / 3 A



**Figure 1. FUSB15200 Evaluation Board**

### Quick Start-Up Guide

Steps to load and execute binary for faster evaluation:

1. Download the binary with filename FUSB15200\_v0.0.0.1.bin and the JLINK support files FUSB15200\_NVR\_Loader.elf, FUSB15200\_FLASH\_LOADER.elf and the FUSB15200 Flash Programming Guide from **onsemi** website.
2. Install SEGGER J-LINK (Follow the steps in **FUSB15200 Flash Programming Guide** for how to download and run firmware in FUSB15200 EVB).

# FUSB15200EVBSUG

**Table 2. FUSB15200 SUPPORTED/ENABLED CONFIGURATION IN EACH PORT**

Feature	Supported	Description
PD Specification Revision	3.1	Supported Revision
PD Specification Revision Version	1.4	Supported Revision Version
SOP* Communication	Yes	Supports SOP, SOP', SOP"
Manufacturer Info Message	No	Unsupported Get MFI
Data Role Swap to DFP	Yes	Supports swap to DFP
Data Role Swap to UFP	Yes	Supports swap to UFP
VCONN Swap to ON	Yes	Support for VCONN swap to ON
VCONN Swap to OFF	Yes	Support for VCONN swap to OFF
Cable Discovery	Yes	Supports Cable Query Process
Chunk Message	Yes	Support for chunked messages
UnChunked Extended Message Length	No	No support for unchunked messages with Extended Length
Rp Value	3A	
VCONN Source	Yes	VCONN sourcing support
PD Power Source	60000 mW	PD Capability per port
USB Suspend May Clear	Yes	
Modal Support	Yes	Enabled modal operation
VDM Messages	Yes	Support for Vendor Defined Messages
Unconstrained Power	Yes	
Product Type	3	Power Brick DFP VDO / PSD UFP VDO

## Power Supply Requirement

See EVB User Manual guide for the power supply requirement.

## Modifying Configuration

Refer to Software Programming Guide if default configuration needs to be modified and it can be supported by the device characteristic.

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