# 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 |

### 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).

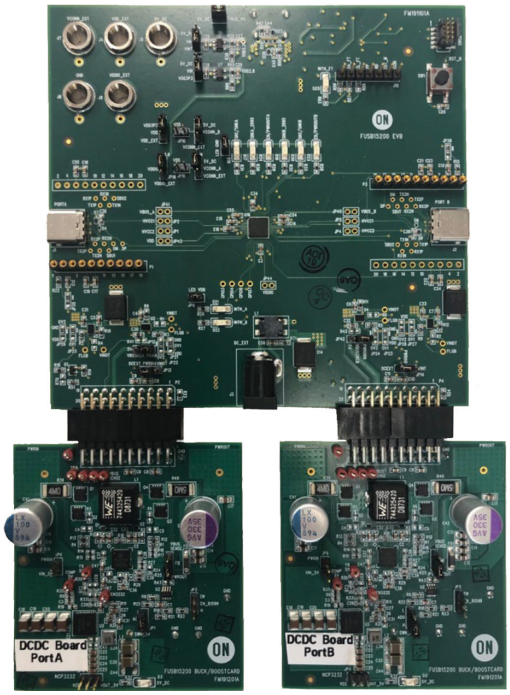



**Figure 1. FUSB15200 Evaluation Board**

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**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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