



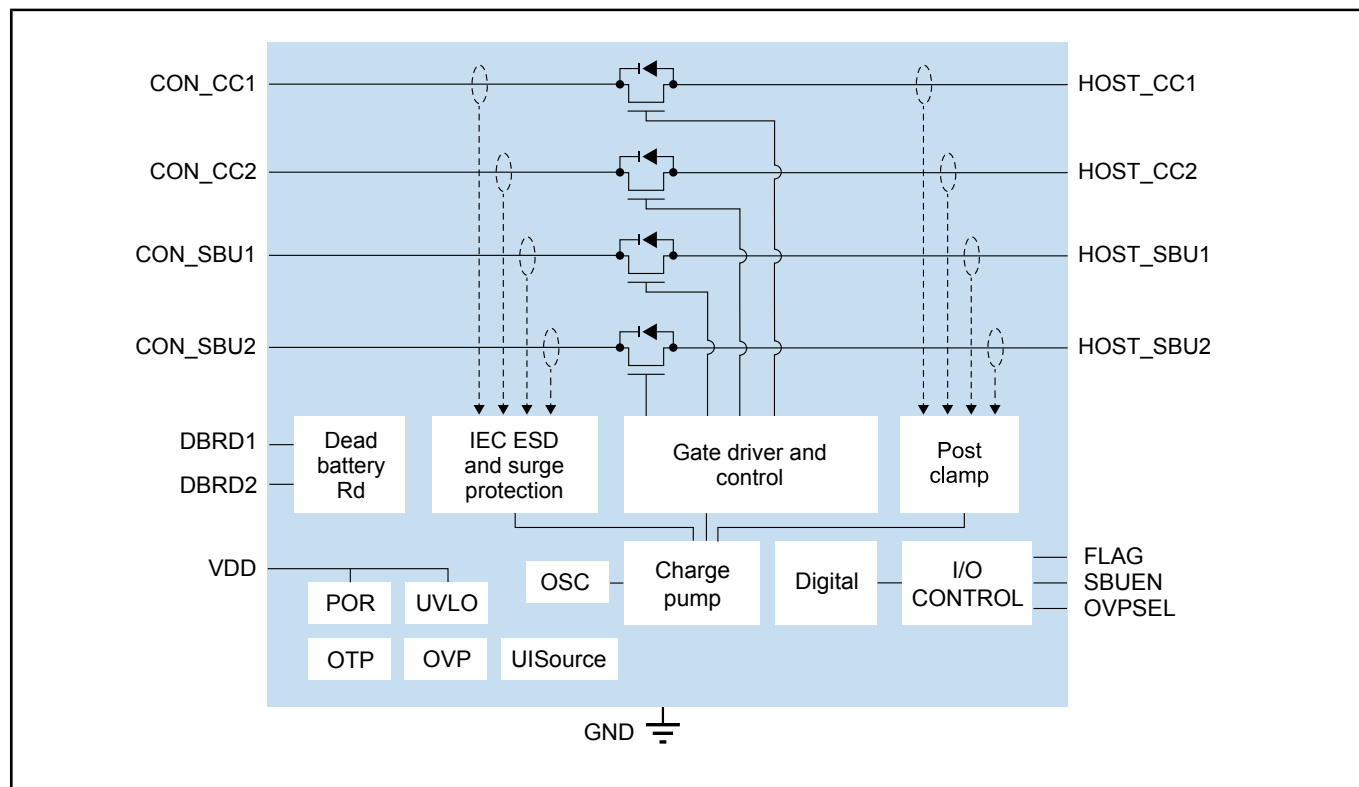
# 48 V Type-C CC and SBU Protection IC for USB PD3.1 EPR

## **NX48P0407**

Last Updated: Jan 20, 2025

The NX48P0407 is a CC and SBU protection IC which can protect the short-to-VBUS damage on CC and SBU pins of Type-C for USB-PD EPR application. USB Type-C allows VBUS voltage to increase up to 48 V through PD 3.1 protocol. CC1/2 and SBU1/2 pins can be shorted to VBUS of 48 V due to mechanical twisting and sliding of the connector since Type-C connector contact pins are 25% closer to each other than a micro USB connector. The NX48P0407 integrates IEC 61000-4-2 ESD protection on CON\_CC1 and CON\_CC2,  $\pm 15$  KV air discharge and  $\pm 8$  K V contact discharge, and are designed to be protected from surges up to +80 V.

## NX48P0407 Block Diagram



View additional information for [48 V Type-C CC and SBU Protection IC for USB PD3.1 EPR](#).

**Note:** The information on this document is subject to change without notice.

**www.nxp.com**

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2025 NXP B.V.