

USB TYPE-C Controller with Power Delivery

Features

- USB Type-C Controller
 - Sink, Source and DRP mode
 - Attachment and Detachment
 - Detection of Cable Orientation
 - VCONN Switch
 - Advertise three currents
- USB Power Delivery (USB PD)
 - Supports USB PD revision 3.0
 - Host / Device Mode Configuration
 - Bi-Phase Marked Coding for Encoding/Decoding
 - Physical Layer Protocol
- 28V withstanding rating on VBUS pins
- 22V withstanding rating on CC1/2, DP_CON/DM_CON pins
- 4 selectable I²C slave addresses
- Smart Charger Detection based on BC1.2
- Over-voltage protection on CC1/2, DP_CON/DM_CON
- High Speed I²C Interface up to 3.4MHz
- 32-Pad, 5mm x 5mm QFN package
- 36-Bump, 2.9mm x 2.9mm WLCSP package

Applications

- Mobile, Smart Phones and Tablets
- Laptops
- Portable Devices

Description

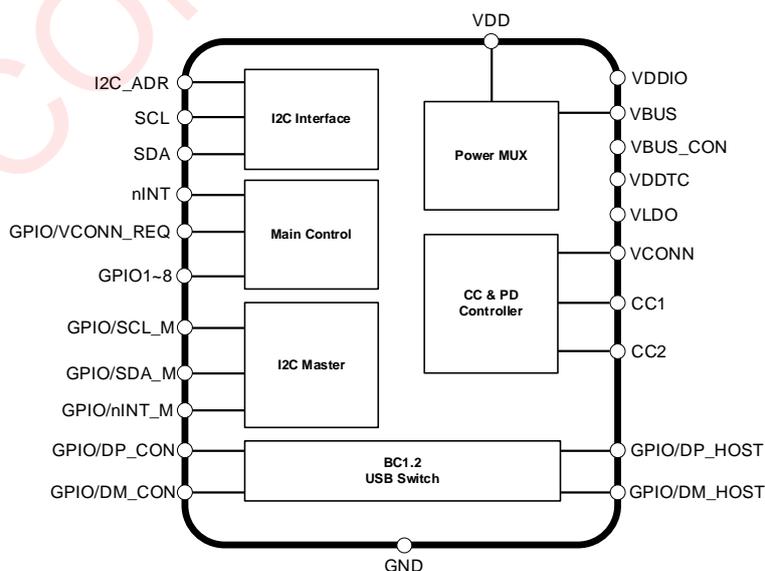
The SM5517 is a highly integrated Interface IC that features a stand-alone USB Type-C controller for Sink mode, Source mode and DRP mode, VCONN switch, and USB Power Delivery protocol over CC pins based MCU.

22V withstanding voltage for CC1, CC2 pins with a programmable OCP on VCONN. The device is available in 5mm x 5mm QFN and 2.9mm x 2.9mm WLCSP package.

Device Information

Part	Package	Size
SM5517	32 QFN	5mm x 5mm
	36 WLCSP	2.9 mm x 2.9 mm

Simplified Block Diagram



SM5517

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