

Electrinically Marker IC for USB Type-C Cable

Features

- Supports SOP' Communication
- USB PD3.0 Compliant
- Integrated transceiver (BB PHY)
- Integrated EMCA (RA) termination resistors
- Two independent VCONN rails with Integrated ISO Diodes
- Supports Multi-Time Programmable memory to store VDM data and Manufacturer Info
- Supports Slew Rate Control for BMC signal
- Supports Custom Structured VDM and Manufacturer Info Writing Through CC Pin
- 2.7V to 5.5V operation on VCONN rails
- Optimized for Low Power consumption

Applications

- USB Type-C cables

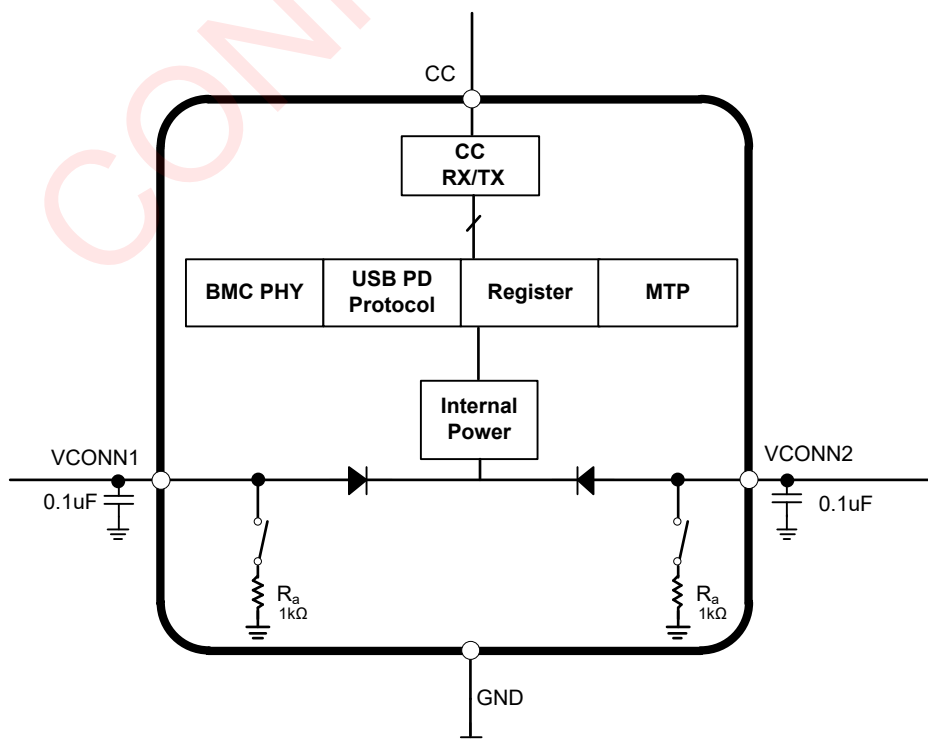
Description

SM5516 is an electronically marker IC for USB Type-C cable. All USB Full-Featured Type-C cables shall be electronically marked. Electronically marked cables shall support USB Power Delivery structured VDM Discover Identity command and respond by returning a Manufacturer Info directed to SOP'. SM5516 provides a method to determine the characteristics of the cable. its current carrying capability, its performance, vendor identification, Manufacturer Info, etc. This may be referred to as the USB Type-C Cable ID function.

Device Information

Part	Package	Size
SM5516	6 DFN	2 mm x 2 mm
SM5516W	6 CSP	1.05 mm x 1.45mm

Simplified Block Diagram



SM5516/SM5516W

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