

MCDP9000

USB Type-C Port Controller

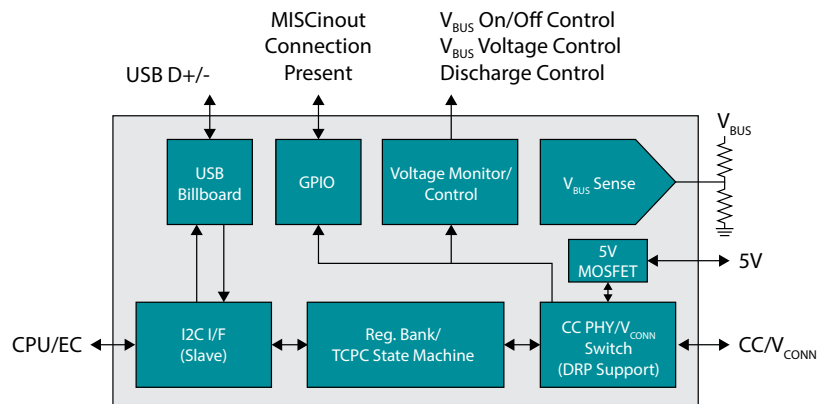
MCDP52x0 Features

- TCPC Compliant Device to PD 3.0 Standard
- DRP/DFP/UFP Support
- Fast-Role-Swap Support
- Integrated Billboard Device (USB FS mode)
- Dead Battery Operation Support
- Power Management through I2C Control
- 24-pin QFN (4mm x 4mm)

Applications

- Desktop PC/Notebook/Tablet
- Smartphone Motherboard
- Docking Station/USB Type-C AV Accessory
- Advanced Driver Assistance Systems (ADAS)
- Automotive Infotainment

The MCDP9000 is a USB Type-C Port Controller (TCPC) primarily targeted for USB type-C alternate mode and/or Power Delivery (PD) provider/consumer/dual-role devices such as mobile phones, tablets, notebooks, dongles, docking stations etc., which implement USB PD communication stack based on TCPM/TCPC topology. The MCDP9000 implements Type-C CC logic, USB PD BMC PHY for CC communication, VCONN switch, VBUS voltage monitor, VBUS voltage control logic, 5V VBUS discharge path, high voltage VBUS discharge control, I2C slave to interface with EC (Embedded Controller) or CPU running device/policy management stack of PD, USB 2.0 full speed (FS) PHY and device controller to support billboard device.



Ordering Information

Part Number	Operating Temp.	Package
MCDP9000B0T	0°C to +70°C	QFN44-24