

NCP81231

Buck Controller, USB Power Delivery and Type-C Applications

Product Overview

For complete documentation, see the data sheet.

The NCP81231 USB Power Delivery (PD) Controller is a synchronous step down controller optimized for USB-PD type C solutions. They are ideal for docking station, car chargers, desktop, and monitor applications. The NCP81231 utilizes an I2C interface that can interface to a uC to meet USB-PD timing, slew rate, and voltage requirements. The NCP81231 operates from 4.5V to 28V

Features

- I2C configurability
- Synchronous step down controller with drivers
- Meets USB-PD specification
- Overvoltage and overcurrent protection

Applications

- USB Type C
- Networking Accessories
- Consumer

Benefits

- Allows for voltage profiles, slew rate control, timing, etc
- Higher efficiency and use of standard mosfets
- Support usb-pd profiles

End Products

- Docking stations
- Car chargers
- Network Hubs
- Desktops