

Product Overview

NCP81231: Buck Controller, USB Power Delivery and Type-C Applications

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

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Topology	Phases	Control Mode	V _{CC} Min (V)	V _{CC} Max (V)	f _{sw} Typ (kHz)	Package Type
NCP81231MNTXG	1.1333	Pb-free Halide free	Active	Step-Down	1	Current/Voltage Mode	4.5	28	150 to 1200	QFN-32

For more information please contact your local sales support at www.onsemi.com.

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