

Product Overview

NCP1094: IEEE802.3at PoE-PD interface controller

For complete documentation, see the data sheet.

The NCP1093 and NCP1094 are members of ON Semiconductor's high power HIPO Power over Ethernet Powered Device (PoE-PD) product family and integrate an IEEE802.3at PoE-PD interface controller. Both Variants incorporate the required functions such as detection, classification, under voltage lockout, inrush and operational current limit. A power good and NCLASS_AT signal have been added to guarantee proper control of the DC-DC converter for both type-I and type-II operation. In addition, the NCP1093 offers programmable under voltage lockout while the NCP1094 provides an auxiliary pin for applications supporting auxiliary supplies. The NCP1093 and NCP1094 are fabricated in a robust high voltage process and integrate a rugged vertical N-channel DMOS suitable for the most demanding environments and is capable of withstanding harsh environments such as hot swap and cable ESD events. The NCP1093 and NCP1094 complement ON Semiconductor's ASSP portfolio in industrial devices and can be combined with stepper motor drivers, CAN bus drivers, and other high-voltage interfacing devices to offer complete solutions to the industrial and security market.

Features

- Fully supports IEEE 802.3af/at specifications
- Overtemperature protection
- Industrial temperature range 40C to 85C with full operation upto 125C junction temperature

Benefits

- Full compatibility with other PoE systems
- High reliability
- Extended operating range

Applications

- Voice over IP
- Wireless access points
- IP camera

End Products

- WiMax

Part Electrical Specifications

Product	Compliance	Status	Topology	Phases	Control Mode	V _{CC} Min (V)	V _{CC} Max (V)	f _{sw} Typ (kHz)	Package Type
NCP1094MNRG	Pb-free Halide free	Active					57		DFN-10

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

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