

产品概览

NCP1096: 以太网供电 – 供电器件接口控制器，带热插拔 FET，IEEE 802.3bt

欲看完整文档，请参阅数据表。



NCP1096 属于安森美半导体符合 IEEE 802.3bt、IEEE 802.3af 和/或 IEEE 802.3at 标准的以太网供电器件 (PoE-PD) 系列方案，支持连接照明和 USB Type C 等大功率应用的开发。NCP1096 在 PoE 系统中结合了所有必要的功能，如检测、分类和涌入阶段的电流限制。NCP1096 使用内部热插拔 FET，可提供高达 90 W 的输出电压。为了提高能效，NCP1096 还提供自动分类支持，用于基于 PD 类型和类别优化功率分配。

特性

- IEEE 802.3bt, IEEE 802.3af, IEEE 802.3at compliant - Allows for up to 90 W of power - Guaranteed interoperability between PoE devices
- Part of ON Semiconductor's family of low-power solutions for PoE-PD
- 5-Event Physical Layer Classification
- Smart power budgeting using Autoclass support which allows the PSE to assign power to each PD efficiently
- Active bridge and hot-swap FET disable when Auxiliary supply connected, increases power efficiency where auxiliary supply powers a PD
- Also available with external hot-swap FET for operation >71 W (NCP1095)

应用

- Power over Ethernet Powered Devices (PoE-PD)
- Internet of Things (IoT)
- IEEE 802.3bt
- IEEE 802.3af
- IEEE 802.3at

终端产品

- Digital Signage
- Satellite Data Networks
- Connected Lighting
- Video and VOIP Telephones
- Security Cameras

器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	Topology	Phases	Control Mode	V _{CC} Min (V)	V _{CC} Max (V)	f _{sw} Typ (kHz)	Package Type
NCP1096PAG		Pb-free	Active				34.2	57		TSSOP-16 EP
		Halide free								
NCP1096PAR2G		Pb-free	Active				34.2	57		TSSOP-16 EP
		Halide free								

欲了解更多信息，请联系您当地的销售支援 www.onsemi.cn。

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