

Power Over Ethernet (POE) Controller, 60 V/2 mA, 214 kHz Switch/Clock, QFN-28

Manufacturers	Analog Devices, Inc
Package/Case	28-WFQFN
Product Type	Power-over-Ethernet (PoE) Interface Controllers ; PoE
Powered Device (PD)	
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT4295IUFD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT4295 is an IEEE 802.3af/at/bt-compliant powered device (PD) interface controller with a switching regulator controller. The T2P output indicates the number of classification events received during IEEE 802.3bt-compliant mutual identification and negotiation of available power.

The LT4295 supports both forward and flyback power supply topologies. The flyback topology supports No-Opto feedback. Auxiliary input voltages can be accurately sensed with just a resistor divider connected to the AUX pin.

The LT4295 utilizes an external, low RDS(on) N-channel hot swap MOSFET and supports the LT4320/LT4321 ideal diode bridges, to extend the end-to-end power delivery efficiency and eliminate costly heat sinks.

The LT4295 also includes an on-chip detection signature resistor, thermal protection, slope compensation, and many user configurable settings including classification signature, inrush current, switcher frequency, gate drive delay, soft-start and load compensation.

Features

IEEE 802.3af/at/bt Powered Device (PD) with Forward/Flyback Controller

Supports Up to 71.3W PDs

5-Event Classification Sensing

Superior Surge Protection (100V Absolute Maximum)

Wide Junction Temperature Range (-40°C to 125°C)

External Hot Swap N-Channel MOSFET for Lowest Power Dissipation and Highest System Efficiency

No-Opto Flyback Operation

Auxiliary Power Support as Low as 9V

Easy Migration of LTPoE++[®] PDs to IEEE 802.3bt PDs

Pin Compatible with LT4276A/B/C

28-Lead $4\text{mm} \times 5\text{mm}$ QFN Package

Application

High Power Wireless Data Systems

Outdoor Security Camera Equipment

Commercial and Public Information Displays

High Temperature Applications



Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC3440EMS](#)

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MSOP10



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MSOP-8P



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BGA40



[LT8471IFE#PBF](#)

Analog Devices, Inc
TSSOP-20