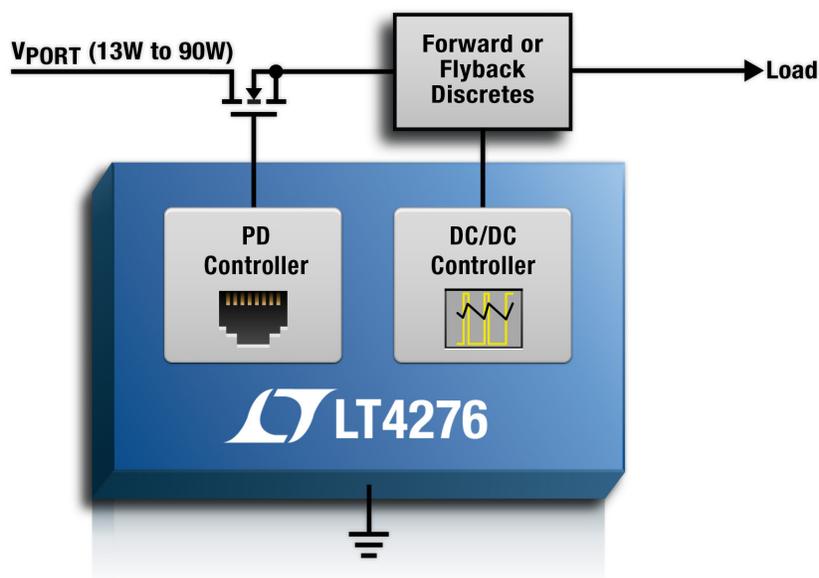


PoE PD Controllers



Harness Up to 90W with LTPoE++

The LT[®]4276 is a family of LTPoE++[™], PoE+ and PoE compliant Power over Ethernet interface controllers with built in DC/DC controllers for powered device (PD) applications needing up to 90W. The LT4276 allows users to size an external Hot Swap[™] FET per the application in order to lower heat dissipation and maximize power efficiency. LTPoE++ offers four different power levels, so very high power PD designs can be realized and optimized, and is backward compatible and interoperable with equipment based on IEEE PoE standards.

Features

- IEEE 802.3af/at and LTPoE++ PD Controller with Forward/Flyback Controller
- 100V Absolute Maximum Input Voltage
- Wide Temperature Range (-40°C to 125°C)
- Overtemperature Protection
- Integrated Signature Resistor
- Low $R_{DS(ON)}$ External Hot Swap N-Channel MOSFET for Lowest Power Dissipation and Maximum System Efficiency
- Programmable Aux Power Support as Low as 9V

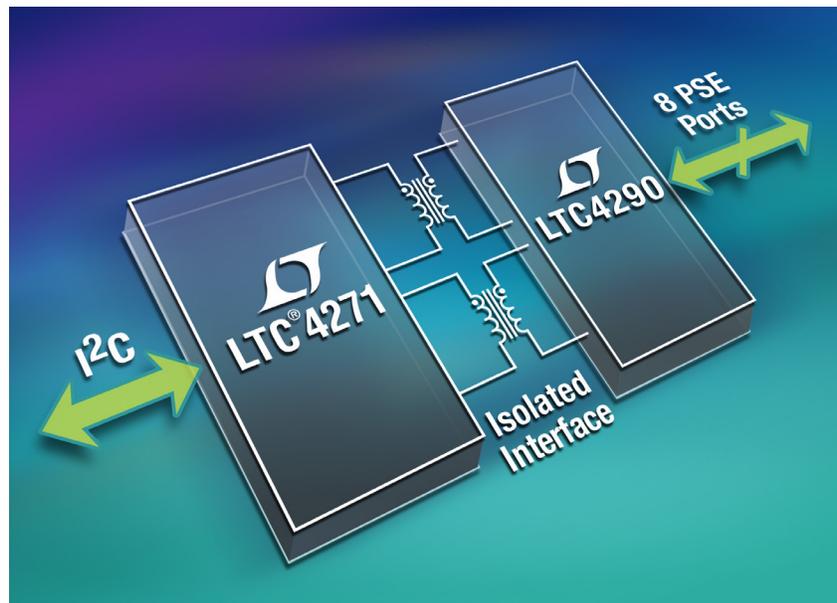
LTPoE++ PD Controller Families

Part Number	Standard	DC/DC Controller	Maximum Delivered Power			One Event Classification	Two Event Classification	LTPoE++ Classification	Packages
			90W	25.5W	13W				
LT4275A	LTPoE++		•	•	•	•	•	•	DFN-10, MSOP-10
LT4275B	PoE+			•	•	•	•		DFN-10, MSOP-10
LT4275C	PoE				•	•			DFN-10, MSOP-10
LT4276A	LTPoE++	•	•	•	•	•	•	•	QFN-28
LT4276B	PoE+	•		•	•	•	•		QFN-28
LT4276C	PoE	•			•	•			QFN-28



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PoE PSE Controllers



Unleash Up to 90W per Port with LTPoE++

The LTC[®]4290/LTC4271 chipset is an 8-port PSE controller designed for use in PoE, PoE+ and LTPoE++ systems. The LTC4290/LTC4271 chipset uses transformer-isolated communication protocol to replace expensive opto-couplers and a complex isolated 3.3V supply used in traditional designs, resulting in significant BOM cost savings. LTPoE++ PSEs and PDs use a proprietary signaling scheme to mutually identify and provide PD power up to 90W, while simultaneously providing backward compatibility and interoperability with equipment based on IEEE PoE standards.

Features

-  LTPoE++
-  Low BOM Cost
-  Ultralow Heat Dissipation
-  Advanced Power Management Hardware
-  Advanced Power Management Software
-  Robust Cable Discharge Protection

LTPoE++ PSE Controller Families

Solution	Number of Ports	Internal Isolation	Standard			PD Power
			LTPoE++	PoE+	PoE	
LTC4270A/LTC4271	12	•	•	•	•	Up to 90W
LTC4270B/LTC4271	12	•		•	•	25.5W
LTC4270C/LTC4271	12	•			•	13W
LTC4290A/LTC4271	8	•	•	•	•	Up to 90W
LTC4290B/LTC4271	8	•		•	•	25.5W
LTC4290C/LTC4271	8	•			•	13W
LTC4266A	4		•	•	•	Up to 90W
LTC4266	4			•	•	25.5W
LTC4266C	4				•	13W
LTC4274A	1		•	•	•	Up to 90W
LTC4274	1			•	•	25.5W
LTC4274C	1				•	13W