

# Power Matters.™

[Home](#) ▶ [PD69208ILQ](#)

## Products

- ▶ [Product Directory](#)
- ▶ [Applications](#)
- ▶ [Parametric Search](#)

## PD69208ILQ

### Product Status

■ In Production

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[Available Stock](#)

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[RFQ/Samples](#)

### Overview

### Docs & Specs

### Diagrams

#### Description

Microsemi's™ PD69208 Power over Ethernet (PoE) and Power over HDBaseT (PoH) Manager chip integrates power, analog, and state of the art Logic into a single 56-pin, plastic QFN package. The device is used in Ethernet switches and Midspans to allow network devices to share power and data over the same cable. PD69208 device is an 8 ports, mixed-signal, high voltage PoE/PoH PSE Manager. The PD69208 supports standard PD (Powered Device) detection, power-up, and protection according to IEEE802.3 and the HDBaseT standards as well as legacy/pre-standard PD detection. The PD69208 provides PD real time protection through the following mechanisms: overload, under-load, over-voltage, over temperature, and short-circuit and enables operation in a total standalone mode, with no need for interaction by the host processor. The PD69208 executes all real time functions as specified in IEEE802.3at High Power ("AT") and PoH standards, including load detection, "AF", "AT", and PoH classification; using Multiple Classification Attempts (MCA). The PD69208 supports supply voltages between 32V and 57V with no need of additional power supply sources. A system that powers over 4 pairs (twin PSE) can be implemented, based on 2 ports of PD69208 – enabling an extra feature for simple and low cost high power PD device. An on-going monitoring of system parameters for the host software is available. Internal thermal protection is implemented in the chip. PD69208 is a low power device that uses internal MOSFETs and internal sense resistors.



**ROHS, PB Free**

**Shipping** TR12

Electrical Rating	Symbol	Min	Typ	Max	Unit
Number of Ports	Number of Ports			8.00	
Output Current (A)	I <sub>O</sub>			0.95	A
Supply Voltage	V <sub>CC</sub>	32.00		57.00	V

Environmental Rating	Symbol	Min	Typ	Max	Unit
Ambient Temperature (°C)	T <sub>A</sub>	-40.00		85.00	°C

This part can be found in the following product categories:

- ▶ [Ethernet and PoE Solutions](#) ▶ [PoE PSE IC](#)