Power Matters.

PoE/PoH Solutions

60W and 95W Solutions

Power Source and Powered Device ICs

Indoor and Outdoor Midspan Systems

Energy Efficient PoE (EEPoE) Technology

Microsemi®

PoE/PoH Solutions for 60W and 95W Systems

Microsemi, the inventor in 1998 of Power over LAN™ -- the precursor of Power over Ethernet -- remains at the forefront of PoE standardization and development.

Today, Microsemi offers a complete portfolio of ICs for Power Source Equipment (PSE) and Powered Devices (PD), plus Midspan systems implementing the 60W option of the IEEE802.3at-2009 standard, as well as the 95W Power over HDBaseT (PoH) standard.
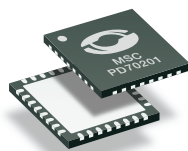
All Microsemi Midspans and PSE ICs feature patented Energy Efficient PoE (EEPoE) technology, which reduces power dissipation by up to 2.25W per port.

PoE ICs

PD70201

PD front end with Integrated PWM Controller

For PD implementations of up to 51W with its integrated 0.6Ω MOSFET, fully compliant with IEEE802.3at-2009. Can support up to 95W with an external FET. Its integrated PWM controller can be used in Flyback, Forward with active clamp and Buck topologies. QFN-32 5x5mm.

PD70200

PD front end

For PD implementations of up to 51W with its integrated 0.6Ω MOSFET, fully compliant with IEEE802.3at-2009. Can support up to 95W with an external FET. DFN-12 3x4mm.

PD69101
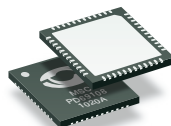
1-port PSE Manager

For PSE implementations of up to 60W, with an integrated 0.3Ω MOSFET, fully compliant with IEEE802.3at-2009. EEPoE capable. Direct LED driving. SPI host interface. QFN-24 4x5mm.

PD69108

8-port PSE Manager

For PSE implementations of up to 95W, with 8 integrated 0.3Ω MOSFETs, fully compliant with IEEE802.3at-2009 and with HDBaseT 1.0. EEPoE capable. UART or I2C host interface. Supports Dynamic Power Management to allow maximizing power supply utilization. QFN-48 8x8mm.

PoE Systems

PD-9601G/AC

1-port 95W Indoor Midspan

Powers PD's consuming up to 95W. 10/100/1000Mbit/s transfer rates. HDBaseT 1.0 and IEEE802.3at-2009 compliant. Lightning protection capable mode available.

PD-9501G/AC

1-port 60W Indoor Midspan

Powers PD's consuming up to 60W. 10/100/1000Mbit/s transfer rates. HDBaseT 1.0 and IEEE802.3at-2009 compliant. Lightning protection capable mode available.

PD-9501GO/AC

1-port 60W Outdoor Midspan

IP66 rated, -40oC to +55oC. Powers PD's consuming up to 60W. 10/100/1000Mbit/s transfer rates. HDBaseT 1.0 and IEEE802.3at-2009 compliant. Side rails allow easy connection of up to 4 units.

PD9500G Multi-port Family

6/12/24-port 60W Indoor Midspan Family

Power PD's consuming up to 95W, in configurations supporting up to 24-ports in a 1U rack-mountable unit. 10/100/1000Mbit/s transfer rates. IPv6, Managed, with RPS support. 100-240VAC or 57VDC input. HDBaseT 1.0 and IEEE802.3at-2009 compliant.

PD-AS-951/12-24 and PD-AS-951/18

60W PoE Splitter

Can deliver up to 60W to non PoE devices. Output voltage 12V, 18V or 24V, 10/100/1000Mbit/s transfer rates.

PD70201 Application

Outdoor Midspan Application

PoE IC Selection Guide

Watts per port	Part Number	# of Ports	Internal PWM	Dynamic Power Management	Package
95W	PD70200	1	No	N/A	DFN-12 3x4mm
95W	PD70201	1	Yes	N/A	QFN-32 5x5mm
60W	PD69101	1	N/A	No	QFN-24 4x5mm
95W	PD69108	8	N/A	Yes	QFN-48 8x8mm

PoE Systems Selection Guide

Watts per port	Product Number	# of Ports	Managed	Input	Environment
60W	PD-9501G/AC	1		AC	Indoor-Indoor
60W	PD-9501G/SP/AC	1		AC	Indoor-Outdoor
60W	PD-9501GO/AC	1		AC	Outdoor-Outdoor
95W	PD-9601G/AC	1		AC	Indoor-Indoor
95W	PD-9601G/SP/AC	1		AC	Indoor-Outdoor
72W	PD-9506G/ACDC/M	6	X	AC & DC	Indoor-Indoor
72W	PD-9512G/ACDC/M	12	X	AC & DC	Indoor-Indoor
72W	PD-9524G/ACDC/M	24	X	AC & DC	Indoor-Indoor

Microsemi.

Microsemi Corporation (NASDAQ: MSCC) offers a comprehensive portfolio of semiconductor solutions for: aerospace, defense and security; enterprise and communications; and industrial and alternative energy markets. Products include high-performance, high-reliability analog and RF devices, mixed signal and RF integrated circuits, customizable SoCs, FPGAs, and complete subsystems. Microsemi is headquartered in Aliso Viejo, Calif.