

PoE Solutions for the Transportation Industry



WLAN Access Points

IP Surveillance Cameras

Wireless Backhaul

Small Cells

How Microsemi PoE Can Help You

The Need for Increased Wireless Connectivity and IP Security at Reduced Cost

Improving business efficiency while providing a superior customer experience is a priority for the transportation industry worldwide. It all begins with evaluating opportunities to leverage indoor and outdoor wireless connectivity and IP security surveillance while reducing infrastructure and maintenance costs. On-board Wi-Fi connectivity supporting live video streaming, as well as advanced video surveillance monitoring systems enhance the mass transit experience by making it efficient, enjoyable, and safe, thereby generating new streams of revenue. Network power flexibility and affordability, along with future adaptability, remain the key to maximizing return-on-investment (ROI).

Redefining the Way Transportation Industry Benefits from PoE

In the always-connected BYOD world where transportation customers and authorities need round-the-clock connectivity, Microsemi offers safe, reliable, and efficient PoE solutions enabling wireless broadband mobility, station connectivity, IP surveillance, monitoring, and communications to transform mass transit systems worldwide.

A Complete Portfolio of Indoor, Outdoor, and Industrial PoE Solutions

Leverage our diverse range of PoE solutions, from 15 W to 95 W of full power: single and multi-port midspan injectors and switches addressing the unique requirements of all indoor, outdoor, and industrial applications to increase business efficiency and provide value-added mass transit services while reducing capital and operating costs.

Features

- High power, full power PoE injectors powering IP connected devices such as Wi-Fi access points and PTZ cameras with power consumption up to 95 W per port
- Higher bandwidth 802.11ac Wave 2 deployments with 2.5G and 10G PoE midspans and switches
- SFP input solutions covering significantly longer distance installations
- IP66, lightning and surge protection to withstand extreme weather conditions in outdoor environments
- SNMP-based and web-based tools enabling remote management of network devices installed in hard to reach locations

Benefits

- Deliver a superior PoE experience with the most reliable power (15 W to 95 W) for installations that include WLAN access points, PTZ cameras, and radios
- Offer full-power PoE solutions with 1 to 24 ports for optimal and flexible network planning
- Enable fast and simple installation with PoE by eliminating the need for local AC/DC power sources
- Gain better operational control through remote management using SNMP-based and web-based tools
- Reduce operating costs by providing the most efficient and configurable PoE



WLAN APs installed in harsh environments



IP video surveillance for outdoor locations



Long distance installations for outdoor IP cameras



Indoor Wi-Fi network and IP video surveillance

PoE Selection Guide

Indoor PoE Midspan Injectors

Power per Port	Product	Number of Ports	Data Rate	Remotely Managed	Input Power	Warranty
15.4 W	PD-3501G/AC	1	1G		AC	1 year
15.4 W	PD-3504G/AC	4	1G		AC	1 year
15.4 W	PD-6506G/AC/M, PD-6512G/AC/M, PD-6524G/AC/M/F	6/12/24	1G	Yes	AC	Limited lifetime
30 W	PDS-EM-8100-25/AC	1	2.5G		AC	1 year
30 W	PD-9001-25GR/AC	1	2.5G		AC	1 year
30 W	PD-9001-10GR/AC	1	10G		AC	1 year
30 W	PD-9001GR/AT/AC	1	1G		AC	1 year
30 W	PD-9004G/AC	4	1G		AC	1 year
30 W	PD-9006G/ACDC/M, PD-9012G/ACDC/M, PD-9024G/ACDC/M/F	6/12/24	1G	Yes	AC and DC	Limited lifetime
30 W	PD-5501G/12-24VDC	1	1G		DC	1 year
30 W	PD-5524G/ACDC/M	24	1G	Yes	AC and DC	Limited lifetime
30 W	PD-9001GR/SP/AC*	1	1G		AC	1 year
60 W	PD-9501GR/AC	1	1G		AC	1 year
60 W	PD-9501G/24VDC	1	1G		DC	1 year
60 W	PD-9501G/48VDC	1	1G		DC	1 year
60 W	PD-9506G/ACDC/M, PD-9512G/ACDC/M, PD-9524G/ACDC/M	6/12/24	1G	Yes	AC and DC	Limited lifetime
60 W	PD-9501G/SFP/AC	1	1G		AC	1 year
60 W	PD-9501GR/SP/AC*	1	1G		AC	1 year
95 W	PD-9601G/AC	1	1G		AC	1 year
95 W	PD-9606G/ACDC/M, PD-9612G/ACDC/M	6/12	1G	Yes	AC and DC	Limited lifetime

*Includes integrated surge protection

Outdoor PoE Solutions

Power per Port	Product	Number of Ports	Data Rate	Remotely Managed	Input Power	Warranty
30 W/ 60 W	PDS-104GO/AC/M	5 (1 SFP data input, 4 PoE outputs)	1G	Yes	AC	5 years
30 W	PDS-102GO/AC/M	3 (1 data input, 2 PoE outputs)	1G	Yes	AC	5 years
30 W	PD-9001GO-ET/AC	1	1G		AC	5 years
60 W	PD-9501GO-ET/AC	1	1G		AC	5 years
60 W	PD-9501GO/12-24VDC	1	1G		DC	5 years
60 W	PD-9501GO/48VDC	1	1G		DC	5 years
90 W	PD-9601GO/AC	1	1G		AC	5 years
95 W	PD-OUT/SP11	1 port outdoor surge protector	1G			5 years

Ruggedized/Industrial PoE Solutions

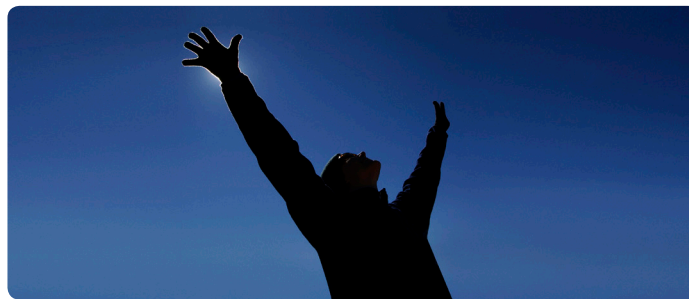
Power per Port	Product	Number of Ports	Data Rate	Input Power	Warranty
30 W	PD-9001GI/DC	1	1G	DC	5 years
60 W	PD-9501GI/DC	1	1G	DC	5 years

Microsemi's Empower Partner Program

Partnerships are at the core of Microsemi's success. Microsemi offers Empower, a comprehensive channel partner program designed to educate and inspire our partners with industry-leading PoE solutions. For more information, please email empower@microsemi.com.

Microsemi: The Market Leader in PoE

As pioneers of the PoE technology, Microsemi has been instrumental in implementing the IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt, and HDBaseT standards. Known for our innovation and reliable solutions, we are today a leading provider of PoE systems and ICs, delivering up to 95 W over a single category 5/5E/6/6A/7 cable in both indoor and outdoor environments.



Microsemi is continually adding new products to its industry-leading portfolio.

For the most recent updates to our product line and for detailed information and specifications, please call, email, or visit our website.

Toll-free: 800-713-4113

sales.support@microsemi.com

www.microsemi.com



Microsemi Corporate Headquarters
One Enterprise, Aliso Viejo, CA 92656 USA
Within the USA: +1 (800) 713-4113
Outside the USA: +1 (949) 380-6100
Fax: +1 (949) 215-4996
Email: sales.support@microsemi.com
www.microsemi.com

©2017 Microsemi Corporation. All rights reserved. Microsemi and the Microsemi logo are registered trademarks of Microsemi Corporation. All other trademarks and service marks are the property of their respective owners.

Microsemi Corporation (Nasdaq: MSCC) offers a comprehensive portfolio of semiconductor and system solutions for aerospace & defense, communications, data center and industrial markets. Products include high-performance and radiation-hardened analog mixed-signal integrated circuits, FPGAs, SoCs and ASICs; power management products; timing and synchronization devices and precise time solutions, setting the world's standard for time; voice processing devices; RF solutions; discrete components; enterprise storage and communication solutions, security technologies and scalable anti-tamper products; Ethernet solutions; Power-over-Ethernet ICs and midspans; as well as custom design capabilities and services. Microsemi is headquartered in Aliso Viejo, California and has approximately 4,800 employees globally. Learn more at www.microsemi.com.

Microsemi makes no warranty, representation, or guarantee regarding the information contained herein or the suitability of its products and services for any particular purpose, nor does Microsemi assume any liability whatsoever arising out of the application or use of any product or circuit. The products sold hereunder and any other products sold by Microsemi have been subject to limited testing and should not be used in conjunction with mission-critical equipment or applications. Any performance specifications are believed to be reliable but are not verified, and Buyer must conduct and complete all performance and other testing of the products, alone and together with, or installed in, any end-products. Buyer shall not rely on any data and performance specifications or parameters provided by Microsemi. It is the Buyer's responsibility to independently determine suitability of any products and to test and verify the same. The information provided by Microsemi hereunder is provided "as is, where is" and with all faults, and the entire risk associated with such information is entirely with the Buyer. Microsemi does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other IP rights, whether with regard to such information itself or anything described by such information. Information provided in this document is proprietary to Microsemi, and Microsemi reserves the right to make any changes to the information in this document or to any products and services at any time without notice.

MSCC-0234-BR-01000-1.10-0817