

PoE Solutions for the Oil and Gas Industry



WLAN Access Points

IP Surveillance Cameras

How Microsemi PoE Can Help You

Wireless Connectivity and IP Security are Significantly Reshaping the Oil and Gas Landscape

Leveraging technology to make refineries safer and more efficient is a priority for the oil and gas industry worldwide. Combating high production costs and thriving despite the fierce competition depends upon increased collaboration and sharing of real-time information among field experts. It also involves continuous monitoring under strict regulations to make plants safer and more secure. Wireless local area network (WLAN) access points and IP surveillance cameras deliver new levels of efficiency and safety at industrial oil and gas sites. Network power availability, flexibility, and affordability, along with future adaptability, remain the key to maximizing return on investment (ROI).

Solving Today's Major Refinery Challenges

Microsemi offers advanced indoor, outdoor, and industrial Power over Ethernet (PoE) solutions for remote powering of high-power applications such as WLANs and PTZ cameras that facilitate workforce mobility and collaboration, real-time monitoring and communication, and improved visibility and security in the plant. While protecting your existing IT investments, Microsemi's PoE solutions efficiently power a converged network infrastructure that connects people and processes, improving the communication and connectivity even in some of the most remote and hazardous sites.

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, addressing the oil and gas industry's greatest challenges including improved control and connectivity in extreme weather conditions.

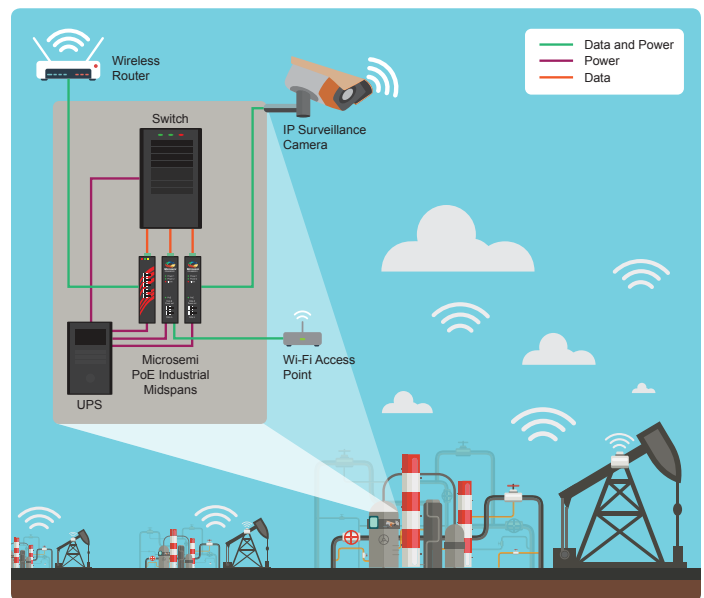
Features

- Plug-and-play capability for simplified installation
- Ruggedized for harsh refinery environments
 - IEEE 802.3af / at PoE standard compliant
 - Broad temperature range (from -40 °C to 75 °C)
 - Industrial rated IP30
 - Advanced surge protection as per IEC61643-21, GR1089, ITU-T K.45 standards
 - Safety approval as per UL 508 standard
 - Shock, freefall, and vibration resistance as per specific IEC 60068 standards

- SFP uplink to extend the network reach by up to 10 km
- High power, full power PoE midspans and switches powering IP connected devices such as Wi-Fi access points and high-resolution cameras
- Higher bandwidth 802.11ac Wave 2 deployments with 2.5G and 10G PoE midspans and switches

Benefits

- Increased Flexibility
 - Install access points and surveillance cameras in the most appropriate locations while removing the need for local AC power source
- Speedy Installation
 - Plug-and-play deployment
 - No need for local AC power sources
 - Vendor-agnostic solutions
 - No need for high-voltage power lines
- Reduced Costs
 - Eliminate the requirement of separate power and data infrastructure
 - Little or no maintenance required
 - Eliminate the need for AC outlets
- High Scalability
 - Seamlessly add new devices, as-needed



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	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.

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