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Plug-And-Play 90-W PoE Solution Streamlines Industrial IoT Deployments

[Microchip Technology's](#) PD-9601GCI midspan is designed to meet the IEEE-802.3bt standard for industrial applications and their challenging environments. It extends the company's broad range of single- and multi-port PoE solutions (see the figure).

"In a market where many existing networks don't fully support PoE's convenient single-cable deployment models, our industrial-grade PD-9601GCI midspan makes it easier for our customers to power their smart equipment in factories and industrial settings," said Charlie Forni, corporate vice president of Microchip's networking and connectivity business unit. "Additionally, our customers have the option to use our midspans as a private label powering option, enabling them to differentiate their products by offering a simpler integrated power solution."

The device offers features and capabilities that support reliable operation in remote or challenging factory and outdoor locations, minimizing downtime and support issues. These include a sealed, vibration-resistant metal enclosure with an IP30 rating; an extended operating temperature range of -40°C to 75°C. and extended power input options, supporting dual dc input in the range of 20 V to 60 V.

Others include enhanced industrial-grade surge protection; industrial mounting including DIN rail, wall or panel mount options; and compatibility testing with industrial automation devices, which helps reduce integration and reliability issues for manufacturers.

Microchip's industrial-grade power over Ethernet (PoE) midspans enable device deployment wherever needed, without any switch replacements or upgrades. Midspans are inserted after the network switch where they inject power onto an Ethernet line so it can deliver both power and data.

These devices provide a convenient and cost-effective solution to deploy PoE in remote or challenging environments. Bundled with an IoT device, midspans enable manufacturers to offer a plug-and-play solution designed to support power delivery over the network.

The PD-9601GCI midspan is available in production quantities. For more information, see the PD-9601GCI product [page](#) or the Power over Ethernet (PoE) products [page](#). You can [purchase](#) directly from Microchip or contact a Microchip [sales representative or authorized worldwide distributor](#).



Figure. The PD-9601GCI midspan stands out from the company's existing PC-9601GC single-port indoor PoE midspan because it's industrial grade and designed to reduce the need for complex electrical work and additional power outlets, while delivering up to 90 W of power and 10/100/1000-Mbps data rates over a single Ethernet cable.