



Analog Devices Announces World's First Long-Reach, Single-pair Power over Ethernet (SPoE) Solutions for Smart Building and Factory Automation

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WILMINGTON, Mass.--(BUSINESS WIRE)--Nov. 16, 2022-- [Analog Devices, Inc.](https://www.analog.com) (Nasdaq: ADI) today announced the world's first Single-pair Power over Ethernet (SPoE) Power Sourcing Equipment (PSE) and Power Device (PD) solutions to help customers drive greater levels of intelligence into smart buildings, factory automation, and other applications at the edge of traditional networks. The new offerings facilitate powered, last-mile connectivity for factory and building automation through real-time power management, telemetry, extremely low standby power consumption, and ease of installation.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20221116005175/en/>



Analog Devices announces world's first long-reach, Single-pair Power over Ethernet (SPoE) solutions for smart building and factory automation. (Photo: Business Wire)

"The Intelligent Edge is one of the most exciting developments of the digital era as computing power is pushed to previously inaccessible applications and locations," said Leo McHugh, Vice President of Industrial Automation at Analog Devices.

"Analog Devices is committed to delivering the unrivaled technology and solutions our customers need to leverage the full potential of the Intelligent Edge in smart buildings and factories as well as many more applications in the future."

Enabling Digital Buildings of the Future

Analog Devices' new SPoE solutions, [LTC4296-1](#) and [LTC9111](#), address the challenges of providing power and data to devices, even in remote, difficult to access endpoint locations. Analog Devices' solutions aim to help new families of endpoint applications to be seamlessly powered and accessed across the network and used to assess local factors such as asset health, environmental conditions, security metrics, and more. The localized awareness and control they offer are the building blocks of the digital buildings of tomorrow.

Analog Devices' SPoE solutions reduce reliance on localized power and batteries by using a single twisted pair of Ethernet cables to provide efficient, reliable, easily installed power at reduced size and weight. Combined with ADI Chronous™ [ADIN1100](#) and [ADIN1110](#) 10BASE-T1L, Industrial Ethernet solutions, customers can reliably transfer both power and data over one kilometer – a significant increase from previous Ethernet standards.

Interoperable Efficiency

Analog Devices' new LTC4296-1 5-port SPoE PSE with Classification and LTC9111 SPoE PD with Polarity Correction products support both SPoE and Power over Data Line (PoDL) variants of single-pair powering. SPoE augments Single Pair Ethernet (SPE) to provide more reliable, fault-tolerant, and interoperable point-to-point power solutions, delivering up to 52W. Both products are 802.3cg compliant and support Serial Communication Classification Protocol (SCCP).

- For more information about ADI's LTC4296-1 5-port SPoE PSE, visit [analog.com/ltc4296-1](https://www.analog.com/ltc4296-1)
- For more information about ADI's LTC9111 SPoE PD, visit [analog.com/ltc9111](https://www.analog.com/ltc9111)
- For more information about ADI's Power-over-Ethernet (PoE) and Single-pair Power-over-Ethernet (SPoE) Interface Controllers, visit <https://www.analog.com/en/product-category/power-over-ethernet-poe-interface-controllers.html>
- For more information about ADI's Chronous™ Industrial Ethernet portfolio, visit [analog.com/chronous](https://www.analog.com/chronous)

About Analog Devices

Analog Devices, Inc. (NASDAQ: ADI) operates at the center of the modern digital economy, converting real-world phenomena into actionable insight with its comprehensive suite of analog and mixed signal, power management, radio frequency (RF), and digital and sensor technologies. ADI serves 125,000 customers worldwide with more than 75,000 products in the industrial, communications, automotive, and consumer markets. ADI is headquartered in Wilmington, MA. Visit <https://www.analog.com>.

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