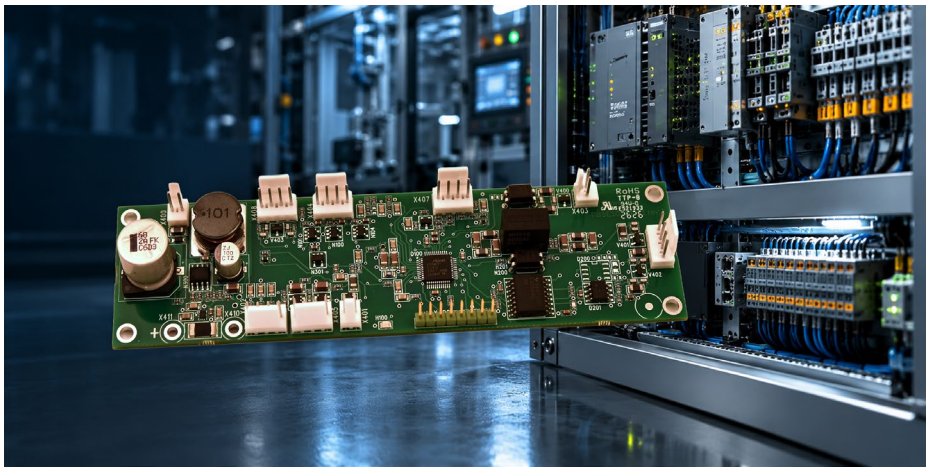
POWERBOX
Engineering Reliable Power

Powerbox Launches the POWERBOX Digital Interface (PDI)

New communication and control platform enables intelligent monitoring, diagnostics and remote control of compatible power supplies.



POWERBOX Digital Interface (PDI) – enabling digital monitoring, diagnostics and remote control of compatible power supplies.

Press Release
Stockholm, Sweden – November 3, 2026

Powerbox (PRBX) announces the launch of the POWERBOX Digital Interface (PDI), a configurable communication and control platform that enables intelligent monitoring, diagnostics, fault management and remote control of compatible POWERBOX power supplies.

Available in separate CAN and I²C versions, the PDI enables compatible power supplies to communicate with external control systems for monitoring, control and fault management. It provides system designers with a practical way to integrate proven power supplies into digital control architectures without redesigning the power supply.

As systems become more connected, customers need more than just a reliable power supply. They also need visibility into how their power systems operate within the overall application, as well as the ability to monitor key parameters and control selected functions remotely. The PDI has been developed to meet that need by linking digital control systems with the existing monitoring and control functions of compatible power supplies.

Through the interface, host systems can monitor output voltage, output current and temperature, as well as access status signals and fault conditions. The PDI also supports Remote on/off, relay functions, and adjustment of supported power supply settings, including voltage regulation and current limiting where the connected power supply supports it.

Powerbox International AB
Västberga Allé 36A, 5tr
SE-126 30 Hägersten Sweden
www.prbx.com

"Reliable power remains the foundation of every system, but customers increasingly need visibility, control and diagnostic information from their power infrastructure," said Anders Arvidsson, Product Manager. "With the PDI, we are extending the capabilities of compatible POWERBOX power supplies and giving customers a straightforward way to add diagnostics, monitoring and control capabilities into their applications."

An important part of the PDI's functionality is its handling of external fault events. When the External Major Fault input is activated, the interface generates an isolated fault indication, sends a Remote-off signal to the connected power supply and sets voltage and current setpoints to zero. This provides designers with a defined response to external fault conditions at system level.

The compact interface is designed for use in demanding environments and supports a 10–80 VDC input range with reverse-polarity protection. It is specified for operation from –40°C to +100°C baseplate temperature, supports humidity levels up to 95% RH non-condensing, is designed to meet IEC/EN 62368-1, and is RoHS compliant. Measuring 38 x 25 x 142.5 mm and weighing approximately 33 g, the PDI can be integrated into space-constrained systems where digital connectivity and system-level visibility are increasingly important.

The PDI is compatible with a broad range of POWERBOX power supply families, including OFI1200A, OFD1200A, OFI700A, AEA Series, PCA Series, HCA Series, HFA Series, GHA Series, DCS Series and TUNS1200 Series. This gives customers a common monitoring and control interface across multiple power platforms, helping simplify system integration while building on proven products. Calibration and configuration are required for the intended power supply and application.

In addition to supporting standard products, the PDI can also play a role in custom power solutions. Its communication, monitoring and control functions can serve as a basis for application-specific developments where customers require more tailored functionality. Beyond the currently available CAN and I^2C versions, additional protocol support and interface adaptations can be evaluated together with the Powerbox engineering team.

Potential applications include industrial automation, robotics, rail and transportation systems, marine electronics, energy infrastructure and other high-reliability electronic systems where monitoring, diagnostics and remote control of power functions are required.

Discover the PDI at electronica 2026
Powerbox will showcase the new POWERBOX Digital Interface (PDI) at electronica 2026, November 10 -13, in Munich.

Visitors are invited to meet with the Powerbox team in Hall A5, Stand 312, to explore how PDI can bring greater visibility, monitoring and control to their power systems. Our team of Power Conversion specialists will be available to discuss compatibility, integration requirements and opportunities for customized solutions.

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Planning to attend electronica? Book a meeting with our team to discuss your application and explore how PDI could fit into your power system.
Book a meeting at electronica 2026

The POWERBOX Digital Interface (PDI) extends the value of compatible POWERBOX power supplies by adding intelligent monitoring, diagnostics and control capabilities without requiring power supply redesign. By improving visibility and control of critical power functions, PDI helps transform compatible POWERBOX power supplies into intelligent, digitally managed power subsystems that are easier to monitor, control and protect throughout the life of the system.

Reliable power. Greater control.

For more information, visit https://www.prbx.com/product/pdi or contact marcom@prbx.com

About Powerbox
POWERBOX is a leading provider of advanced power conversion solutions for demanding industrial, transportation, medical and defense applications. Founded in 1974 and headquartered in Sweden, the company has more than 50 years of experience developing high-reliability AC/DC and DC/DC power systems for harsh and mission-critical environments.

By combining proven standard products with customized power solutions, POWERBOX helps customers accelerate innovation while meeting stringent requirements for reliability, performance and lifecycle support. Operating across 12 countries, the company supports OEMs and system integrators worldwide with power solutions engineered for the most demanding applications.

Engineering Reliable Power.

Media Contact
Deryn-Lee Mardon
Chief Marketing and Communications Officer
+46 (0) 158 703 00
marcom@prbx.com
www.prbx.com

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