

Powercast Launches Ruggedized RAIN RFID Reader Module Designed for Extreme Temperatures and Environmental Conditions

Ruggedized module, a finalist in RFID

Journal's Best New Products, costs

less/withstands more extreme temperatures, -40°C to +85°C, than -20°C to 70°C modules

LAS VEGAS, NV, USA, April 10, 2024 /EINPresswire.com/ -- [Powercast Corporation](#), the industry's



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*Charles Greene, Ph.D., COO
and CTO of Powercast*

one-stop-shop for wireless power, has launched its Extended-Temperature RAIN RFID Reader Module designed to integrate into high-temperature RFID readers that need to reliably operate in the extreme conditions present in automotive, industrial, outdoor, energy and other applications.

Powercast ruggedized its RAIN RFID Reader Module to reliably communicate with and power RFID tag devices in RFID systems operating in extreme temperatures, where other readers could overheat and fail. It can operate from -40°C to +85°C, where most reader modules can operate from -20°C to 70°C. It is also typically lower cost than other such modules.

Powercast's module is a finalist in the Best New Product Awards at the RFID Journal LIVE show, being held April 9 – 11 in Las Vegas, NV, and is on display at Powercast's booth #529. The awards ceremony will be held April 11 at 1pm.

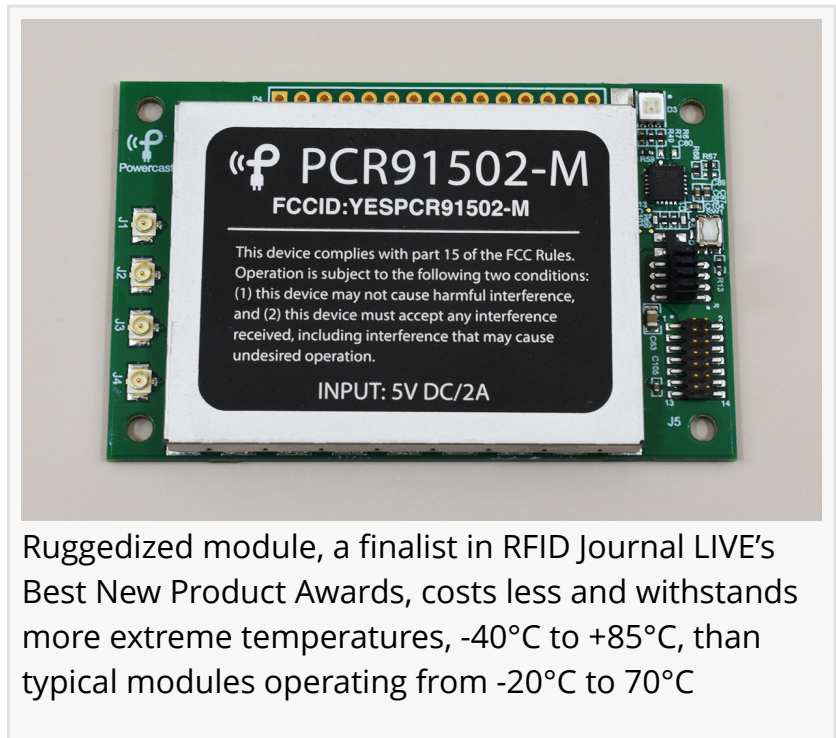
Powercast chose the [Impinj E710](#) reader chip to provide RAIN RFID read/write capability and IoT device connectivity for its module. The companies' technologies combine to enable RFID readers that can efficiently identify, locate, and authenticate large groups of tagged items quickly.

The module's RF protocol adheres to EPCglobal® UHF Class 1 Gen 2 / ISO 18000-63 RFID, while it interfaces to other embedded electronics systems via USB or UART communication lines, and is powered from externally applied 5V DC power.

The 2.7" × 1.7" × 0.37" Extended-Temperature RAIN RFID Module features:

- Impinj E710 RAIN RFID reader chip for communication and power.
- FCC modular certification supporting 902-928MHz ISM frequency band operation.
- Support for up to 4 antennas via U.FL/UMCC connectors.
- RF power levels up to +30dBm.

"We are honored that RFID Journal LIVE has selected our module as a finalist in its Best New Product Awards," said Charles Greene, Ph.D., COO and CTO of Powercast.



Ruggedized module, a finalist in RFID Journal LIVE's Best New Product Awards, costs less and withstands more extreme temperatures, -40°C to +85°C, than typical modules operating from -20°C to 70°C

Greene continued, "Our ruggedized module ensures reliable data capture in monitoring and management systems operating outdoors and in other extreme environments. It is already deployed by customers in several such applications, including monitoring automotive parameters such as temperature, pressure and wear, as well as commercially for outdoor asset tracking."

"The Impinj E family of RAIN RFID reader chips raise the bar for performance, integration, and ease of use," said Vikas Dhurka, senior director of product management for Impinj. "Our reader chips enable our partners like Powercast to build small, powerful, and energy-efficient products. We are pleased to see Powercast continue to use our products in unique and innovative ways as we both work to expand adoption of RAIN RFID into new and exciting markets."

About Powercast

Powercast Corporation is the one-stop-shop for all things wireless power, short to long range and microwatts to kilowatts, with the industry's broadest technology offering covered by over 300 patents worldwide. Our mission is to revolutionize the way the world accesses and uses power by delivering innovative wireless solutions - from power-over-distance RF charging to powerful contact-based inductive charging to Lifetime Power® 25-year battery life sensors - that change communities and contribute to a brighter sustainable future for generations to come.

Powercast is leading the way in transforming the power landscape, creating a world where wireless power solutions are seamlessly integrated into our daily lives. We are at the forefront of sustainability, productivity, and convenience, envisioning a future where every device is charged wirelessly, every task is simplified, and every action leaves a smaller ecological footprint.

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