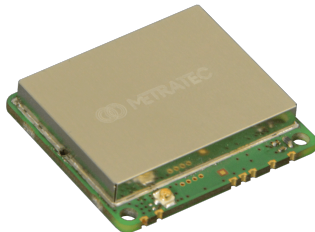


DwarfG2 v2 UHF RFID OEM Module

Art. no.:
22003418



- Up to 21 dBm Output Power
- Up to 1.5 m Read Range
- Worldwide Frequency Range

DwarfG2 v2 UHF RFID OEM Module

This next generation of the DwarfG2 marks a new beginning of RFID modules by Metratec. Based on the Impinj E310 frontend IC, this module delivers great performance in a small package and without measurable heat development. Bringing UHF RFID functionality into your embedded device has never been easier.

Read modern UHF transponders with up to 1.5 m range and use all the latest EPC Gen2 v2 features as well as propriety Impinj tag features like FastID and TagFocus. Thanks to the wide operating frequency range, the same module can be used worldwide.

This new product version has the same footprint as the previous module generation but delivers better performance and higher stability under difficult conditions due to the more sensitive RFID IC. The module also uses the same AT commands included in all new Metratec UHF products.

To make your integration task easier, we supply a C library with examples for embedded Linux and bare metal programming, as well as an example for µPython. For use with PC-based systems, there is also a Java, Python, and .NET SDK. They all can be found on our [Github Page](#) or in the download area below. For the fastest start, get our DwarfG2 Starter Kit which includes our new UDB4 development board, an SMD-to-board adapter, and some transponders.

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Technical Specification

| | |
|---------------------|---|
| Operating Principle | UHF Embedded RFID SMD Module |
| Operating Frequency | 868 MHz / 902 - 928 MHz |
| Antenna Connector | U.FL and vias |
| Output Power | 0 - 21 dBm (1 - 125 mW) |
| Read Range | up to 1.2 m / 4 ft with typical UHF transponder, up to 1.5 m / 5 ft with Impinj M730 |
| Supported Protocols | EPC Class 1 Gen 2 v2 |
| Connectivity | 3V3 UART (115,200 Baud) |
| Operating Voltage | 5V DC |
| Power Consumption | idle: 50 mA, RF on: max. 550 mA |
| Temperature Range | -20 °C to +70 °C |
| Dimensions | 39 x 36 x 5 mm |

About Metratec

Metratec develops, produces and sells Radio electronics for the areas of "Identification", "Localization", and "Communication" and thus serves a variety of markets with standard products as well special solutions. Customers include OEM customers, system integrators and research facilities worldwide.

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