

metraTec® DwarfG2 Mini UHF SMD Module

UHF RFID technology offers a host of useful applications to manufacturers of machines, terminals and other devices. It is being used to check consumables (e.g. printer cartridges), to store user configurations, to check originality of hardware and to detect object presence to name a few.

The DwarfG2 Mini SMD Module by metraTec is the product of choice in case the application does not need long reading range and highest reading performance but instead profits from an unmatched price / performance ratio and a minimum reader size. With only minimal effort you can upgrade devices like printers, laboratory equipment, machines, or specialized handhelds with UHF RFID functionality. The module excels in its low cost, minimal heat generation and small size and can reach reading ranges of up to 20cm given the right antenna and tag combination.

By using the finished SMD solderable module you save valuable development time, achieve an unmatched time to market and have the ease of mind of an intensely tested and validated hard- and firmware. Should your project require adaptations in size or functionality metraTec is capable of supplying both if needed.

Further Hardware

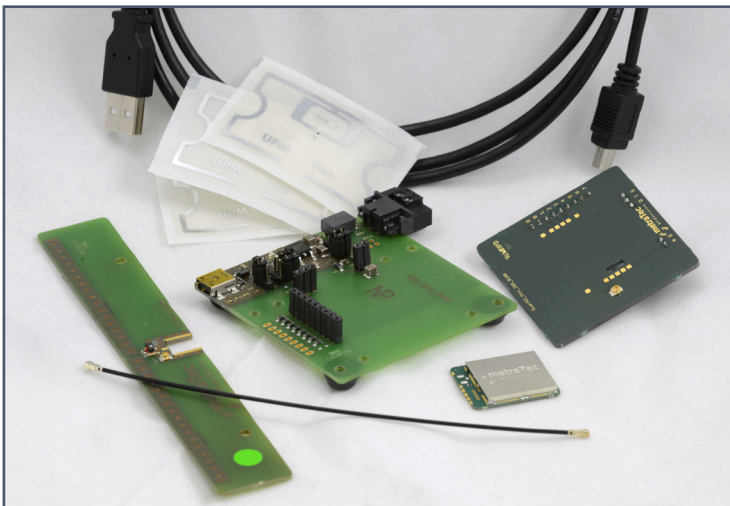
- Different types of UHF antennas with U.FL connector
- Individual antenna design according to your specifications
- U.FL cables in different lengths
- Module variations according to your specifications



Technical Specification

Operating Principle	UHF Proximity RFID SMD Module
Operating Frequency	868 MHz (UHF RFID, ETSI)
RF Power	up to 25 mW / 14 dBm (configurable)
Antenna Connector	U.FL / Vias
Read Range	up to 200 mm (with correct antenna / tag combination)
Compatible RFID Protocol	EPC Class 1 Gen 2
Supply Voltage	3.3 V DC
Operating Current	max: 200 mA
Digital Inputs/Outputs	4 x In/Out 3.3 V
Communication	Serial 3.3 V TTL (UART) (Connector / Vias)
Operating Temperature	-40 °C to +85 °C
Dimensions	21 x 28 x 3 mm (without connectors)

And for an easier and quicker implementation: The DwarfG2 Mini RFID Starter Kit



At a Glance

- Quick and cost effective implementation of RFID projects
- SMD solderable with minimal footprint
- External antenna connector
- Best Price / Performance ratio

About metraTec

metraTec develops, manufactures and sells electronics for the product segments „Identification“, „Localization“, „Communication“ and „Wireless Power“. It serves a variety of industries, both with standard products as well as custom solutions. Our customers are system integrators, OEM customers as well as research institutes world wide.

Contact

metraTec GmbH
Niels-Bohr-Str. 5
39106 Magdeburg
Germany

Tel.: +49 (0)391 251906-00
Fax: +49 (0)391 251906-01
Email: sales@metratec.com
Web: www.metratec.com