

## DwarfG2 XR UHF RFID SMD Module

Art.-No.: 2200 1245

## metraTec® DwarfG2 XR UHF SMD Module

RFID technology offers manufacturers of machines, terminals and many other devices a variety of useful and innovative application scenarios: Checking consumables, saving user configurations on objects, more transparency in your supply chain....

Independent of the field you are working in or what your product idea is - with metraTec's DwarfG2 XR SMD Mid Range UHF module you can enhance your products, e.g. printers, handhelds or other devices, with UHF RFID functionality. Everything without development problems and without a big budget.

The module sets a new standard for quick reading and writing of data (write a 96 bit EPC in approx. 100 ms). And despite its small size, it has a performance comparable to other mid range RFID readers of up to 500 mW. With the right antenna (e.g. our Echo-3 Dipole) you can get a read range of up to 2 m.

With the use of these production ready SMD modules you get a tested hardware and firmware with an extremely short time to market. If you need a different form factor or new features there is always the possibility for a customized module. For high volume applications it is also possible to get a licence for design and firmware at attractive conditions.

### Further Hardware

- Various UHF Antennas with U.FL Connector
- Custom UHF Antenna Design
- U.FL Cables in various lengths
- Custom moduls according to your specs

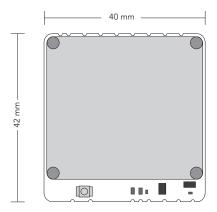




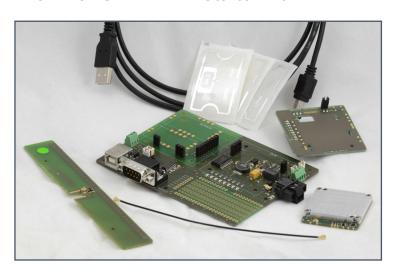


## **Technical Specification**

Operating Principle	UHF Mid Range RFID SMD Module
Operating Frequency	868 MHz (UHF RFID, ETSI)
Output Power	up to 500 mW (configurable)
Antenna Connector	U.FL / Vias
Read Range	up to 2 m (with right antenna and tag)
Supported RFID Protocols	EPC Class 1 Gen 2
Operating Voltage	5 V DC
Current Consumption	max: 850 mA
Digital Inputs/Outputs	8 x In/Out 5 V TTL
Communication	Serial 5 V TTL (UART) (via Vias and Connector)
Operating Temperature	-20 °C to +70 °C
Dimensions	40 x 42 x 6 mm



# And for the quick development process: The DwarfG2 XR RFID Starter Kit



### At a Glance

- Quick and easy integration
- SMD module with minimum footprint
- External antenna connector
- Fast Read/Write

### About metraTec

metraTec develops, manufactures and sells RF hardware 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

