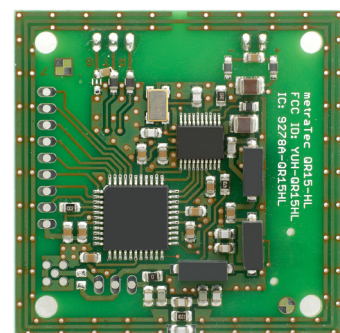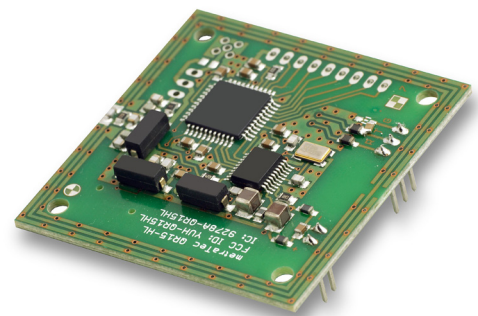## metraTec® QR15 HF RFID Module

RFID technology offers manufacturers of machinery, terminals and other devices a variety of useful and innovative applications: Verification of consumables, automatic user configuration, access control, contactless payment and e-ticketing solutions, certification of product authenticity...

No matter in which field you are active and which product idea you plan to realize - the QR15 RFID module offered by metraTec gives you the opportunity to equip your products with RFID functionality easily and cost effectively. Just plug in the QR15 module into your PCB and you can read/write RFID transponders according to ISO15693 (e.g. ICode or Tag-It) with read ranges of up to 70 mm using the internal antenna.

By using this plugin module you get proven hard- and firmware with an unbeatable time to market. The module has a modular approval for FCC/IC certification and ETSI measurements are also available on request.

Matching other Hardware

• QR14 HF RFID Module for MIFARE® Protocol
• UDB Mini Development Board for a quick integration process
• Integration service and consulting

Technical Specification

Operating Principle	Short Range HF RFID Module
Working Frequency	13.56 MHz (worldwide frequency)
Antenna	internal 50 x 50mm antenna
RF Power	250 mW
Read Range	up to 70 mm (depending on transponder)
RFID Protocol	ISO15693 (e.g. ICode SLI, Tag-IT HFi, etc.)
Communication	5 V UART (115,200 Baud)
Operating Voltage	5 V DC
Digital Inputs/Outputs	8 x 5 V Input/Output (configurable)
Dimensions	51 x 51 mm (2 x 2 inch)
Operating Temperature	-20 °C to +70 °C
Certifications	FCC/IC modular approval, CE measurements available

And for the quick development process: The QR15 RFID Starter Kit

At a Glance

- Quick and cost effective implementation of RFID projects
- Integration of RFID capabilities without special RF knowledge
- Flexible via plugin module

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.

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RFID Solutions