metraTec® QuasarMR1 RFID Reader

The QuasarMR1 is a mid range RFID reader operating in the HF frequency range (13.56 MHz). With its RF power it is able to read tags from a distance of up to 40 cm (16 ") with a suitable combination of RFID tag and antenna. The reader supports a broad variety of protocols, including ISO14443A (only ID), ISO15693 and ISO18000-3 as well as selected proprietary protocols.

To communicate with the rest of the world the QuasarMR1 has a USB connection and an optional Ethernet interface. Both can be addressed via a virtual COM port. Additionally there are 8 general purpose IO pins, which can be controlled via the reader software. These pins can be used to control external devices, such as multiplexers, alarms or other peripherals.

As with all metraTec products, a special focus was put on the ease of integration of the reader into an existing RFID infrastructure. Integration into IT systems based on Windows is supported by a .NET DLL and a Java SDK which can be downloaded from our website for free. A demo software is also available with a comprehensive set of features that allows easy testing of the device.

Further RFID Components by metraTec

metraTec offers a comprehensive set of RFID products that enables its customers to set up RFID systems whose components work together seamlessly. This reader interfaces perfectly with our range of HF multiplexers, which enables you to connect up to 16 antennas to a single reader. For this you can use antennas from our PCB or Lambda series, custom built antennas or any other HF RFID antennas available on the market.

Technical Specification

Operating Principle	1.5 W ± 1 dB mid range HF Reader
System Impedance	50 Ohm
Operating Frequency	13.56 MHz
Connections	BNC (others, e.g. SMA on request)
Power Supply	6.5 - 9 V DC
Power Consumption (USB)	idle: ca. 50 mA, RF active: ca. 650 mA
Power Consumption (Eth.)	idle: ca. 250 mA, RF active: ca. 800 mA
Connectivity	USB, 8 IO Pins (TTL), optional: Ethernet
Temperature Range	-40 °C to +85 °C (-40 °F to +185 °F)
Housing, dimensions	Aluminium, 106 x 125 x 44 mm (4.2" x 4.9" x 1.7")
Weight	ca. 500 g
Ingress Protection	IP 40 (higher on request)
Conformity	CE, including ETSI 300 330

Supported Tag Types

- ISO15693
- I-Code (Philips)
- Tag-It (Texas Instruments)
- ISO14443A (only ID)

At a Glance

- Library & Document Management
- Live Inventory Management
- Logistics & Supply Chain Mngt

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.

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