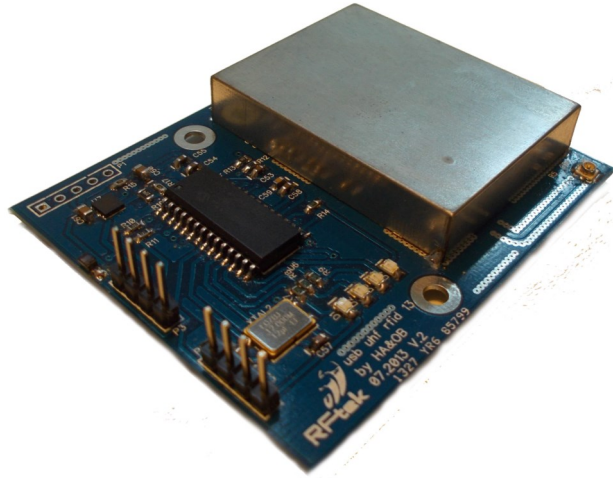


RM1 UHF RFID READER MODULE

RFtek RM1 is a UHF RFID reader module for low-power and low-cost applications at 860 – 960 MHz operating frequency. It allows easy communication via USB and UART interface. Command operations are provided via these interfaces. The device is compatible with EPC Class1 Gen2 UHF RFID tags.

With a SDK support it is very simple to design your own desktop UHF RFID reader.



TECHNICAL SPECIFICATIONS

Operating Frequency	860 - 960 MHz
RF Output Power	200 mW (23 dBm)
Operating Voltage	5 VDC (USB)
RFID Standard	EPC Class1 Gen2 ISO 18000-6B&C
USB Connector Interface	USB B mini connector
Dimensions	91 x 70 x 1.6 mm
Read Range	20 cm
Operating Temperature	-40° C - +85° C
Graphical User Interface (GUI)	<ul style="list-style-type: none"> • Tag read/write, encryption • Adjustable RF output power • Adjustable RF sensitivity • Diagnostic features: RSSI and reflected power measurement • Frequency bands selection • Gen2 parameters • Sending direct commands • Tag manipulations

APPLICATION AREAS

- MOBILE APPLICATIONS
- MODULAR SOLUTIONS
- INDUSTRIAL EMBEDDED APP.
- ACCESS CONTROL
- PAYMENT APPLICATIONS
- DOCUMENT TRACKING
- TAG PROGRAMMING
- INVENTORY MANAGEMENT



RF/RFID HARDWARE DESIGN

We provide innovative and flexible solutions for your RFID applications with the design of UHF RFID reader, antenna and antenna multiplexers.

MODULAR RFID SOLUTIONS

RFID ANTENNA DESIGN

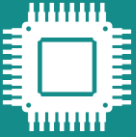


ELECTRONIC SYSTEM DESIGN

We provide solutions based on electronic system level design projects with schematic & PCB and embedded system design.

INDUSTRIAL ELECTRONICS

RFID SMART SHELVES



EMBEDDED SOFTWARE DESIGN

We provide embedded system design for various microcontroller/processor families in 8-bit, 16-bit and 32-bit architectures.

R&D DESIGN CONSULTING

ABOUT US

RFtek Electronics was founded in 2012 with the fund of Ministry of Science, Industry and Technology of Turkey. It is a startup company deals with the R&D processes of RF/RFID hardware design, electronic system level design projects and embedded software programming.

MISSION

To provide customer-focused products & solutions powered by the cooperation of high technology based design and R&D workouts with a reliable and high quality service of concept.

VISION

To be a leading technology company in RF/RFID field with responsive technology based solutions to industry's needs and expectations, spirit of R&D and prioritizing customer satisfaction in the first place.

TEAM MEMBERS

Huseyin U. AYDOGMUS

Co-Founder
Electronics Engineer, M.Sc.
Ph.D. Candidate
Embedded system design

Ozgur BOSTAN

Co-Founder
Electronics Engineer, M.Sc.
Ph.D. Candidate
RF system design

thinking the beyond

HANDLED R&D PROJECTS

UHF RFID READER DESIGN

- ◆ First domestic product (prototype)
- ◆ Funded by the Ministry of Science, Industry and Technology of Turkey

DESIGN & IMPLEMENTATION OF UHF RFID SMART SHELF

- ◆ Funded by TUBITAK (Scientific & Technological Research Council of Turkey)
- ◆ Funded by KOSGEB (Small and Medium Enterprises Development Organization of Turkey)

MODULAR ROBOT DESIGN

- ◆ Hardware and software design of a modular robot kit for children

PUBLICATIONS & PATENTS

Beyond the R&D activities, RFtek has academic papers and issued patent applications related to its own products; UHF RFID reader, antenna multiplexer and smart shelves.



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