

RE412 UHF Reader/ Writer

Communication Interface

USB-Type-C

Antenna

Close range super antenna

Working patterns:

LED indication

Power supply:

USB3.0 and above Type-C

Transmission rate:

3Mbps

Rated power:

5W

Dimensions:

125mm x 115mm x 17mm

Material:

tempering glass, aluminum alloy

Weight:

0.3kg

Sensitivity:

< -75dBm

Operating Frequency

865MHz ~ 868MHz,

902MHz ~ 928MHz

Protocol standards:

RAIN RFID/ISO 18000-63

EPCglobal Gen2v2

RF-POWER:

≤27dBm

Read Speed:

Up to 250tag/s

Reading range:

< 20cm

Writing Range:

< 10cm

Operating Temperature:

-20°C ~ +65°C



Easily and cost-effectively add Zebra's advanced RFID capabilities into your products with Zebra's first highly-integrated OEM RFID UHF module, the RE40. This system in package (SIP) solution provides everything you need to make every aspect of integrating RFID into your products as simple as possible—from manufacturing and design to testing and certification. The result? Fast integration for a fast time-to-market. Easy firmware updates for longer product lifecycles. And devices that set the bar for simplified management.

Simple Device Deployment—No Expertise Required

Zebra's 123RFID Desktop no-cost utility makes it easy to configure and manage your RFID-enabled devices.

An intuitive wizard presents easy-to-understand options in drop-down menus, radio buttons and sliders that let you simply click your way through set up. And with built-in help and how-to videos, practically any question can be answered right inside the tool..

- Desktop UHF reader, designed for short-range RFID data collection, support tag reading and writing within 45CM
- With proprietary and efficient tag anti-collision algorithms, it achieves fast reading and writing processing of tags while maintaining high recognition rates
- Data transmission can be achieved through Type C USB, which can be applied to various scenarios such as retail receipts, logistics, identity recognition, access control systems, intelligent parking, anti-counterfeiting systems, and production process control

Tiny Size Fits in Virtually Any Product

As one of the smallest RFID chip modules in this class, the RE40 can fit on the most space constrained boards in the most space constrained products—ideal for fixed and portable applications.

Worldwide Compliance

RE40 solutions are fully tested for world wide compliance and meet regulatory requirements, enabling fast time-to-market and lowering development risks for integration..

Industry-Leading Radio Technology

Get peak reliable RFID performance for reading and writing with superior radio sensitivity, an echo-cancellation noise reducing circuit and powerful software for a wide variety of applications. The RE40 supports Dense Reader Mode (DRM) operation and high speed reading of up to 250 tags per second..

*Technical parameters are subject to update

without prior notice*

Ideal for a Wide Range of Products
Get the versatility to embed RFID quickly, easily, and cost-effectively into a wide range of equipment, including medical devices, carts and cabinets, kiosks, commercial refrigeration, access control, smart lockers, robots, vending machines, tool cribs, casino terminals and tables, ticketing systems, printers, sleds, and POS terminals.

General Purpose I/O
4 GPI/O, 2 GPO
Host Interfaces
UART & USB

Turnkey solution

Customer customization
Customization the size of outer-ring
Customizing waveform antennas
Customized I O output port
Customizing ports for communication data

For more information, please visit
<http://www.megawin.cn>

E-mail: info@megawin.cn

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RE40 module



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Fast testing and software development with the complete Development Kit Radio Engine (DKRE), which includes:

Development CB (2 RF ports, Serial, USB, power connection) ; Power supply Cables—RF cable, USB cable, power cable Antennas; Tag samples; Quick Start Guide and USB drive with additional documentation; RF Module

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Regulatory and Compliance

Certified: FCC, Canada and ETSI modular operation; Electrical Safety IEC 62368-1 (ed.2) EN 62368-1:2014/AC:2015 EMI/RFI EN 55032:2012/AC:2013 (Class B) EN 55032:2015/AC:2016 (Class B) EN 55024:2010 EN 55024:2010/A1:2015 EN 55035:2017 47 CFR Part 15, Subpart B, Class B; RoHS compliant

Software Interface

- **123RFID Desktop**
GUI-based application for Windows 10 64 bit;
Console Based Demo Tool for .NET Core 3.0;
Console application for .NET core 3.0 to demonstrate reader configuration and file-based f/w update (in hosts where 123RFID Desktop cannot be used)
- **REID4 SDK for C,C# and Java**
C, C# (.NET core 3.0) and Java supported for Windows® 10 64 bit, Ubuntu Linux® 64 bit; Raspberry Pi Linux (Raspbian 4.19) 32 bit C# (.NET 4.5.2 framework) for Windows
- **RCI**
Windows® 10 64 bit; Raspberry Pi Linux (Raspbian 4.19) 32 bit, Ubuntu Linux

Services

Technical support
Installation
maintenance
Warranty
Application Support
Hardware support