

RU-824

UHF RFID USB Reader

Microelectronics Technology, Inc.'s (MTI) RU-824 UHF RFID USB Reader provides global, affordable, mobile and enabling features and performance for ISO 18000-6C/EPCglobal C1G2 applications. MTI's RU-824 is our first UHF RFID USB Reader (complete with internal antenna) and this exciting product will turn any USB enabled computer, laptop, notebook, netbook, PDA or mobile phone into a ISO 18000-6C/EPCglobal C1G2 RFID Reader System. A single USB external cable (with lengths up to 5 meters) connects the RU-824 to any USB host to support a variety of different use cases and applications. Uses include product authentication, asset and inventory verification, mobile and portable RFID reader infrastructure solutions.



For more than 25 years, MTI has been internationally recognized as a global leader in the design and manufacturing of high-volume RF and Microwave products. MTI is committed in employing our resources and capabilities to introduce new, innovative and exciting hardware solutions enabling ubiquitous mass market adaption for the emerging RFID market.

Our vision is to provide ISO 18000-6C/EPCglobal C1G2 products with the best features and performance, highest quality, reliability, and affordability possible. Simply stated, MTI provides you with the Best Value UHF RFID Readers currently available in the market.



Best Solution

- Small and completely integrated UHF RFID USB Dongle Solution
 - Embedded antenna with RFID module inside plastic enclosure
- ISO 18000-6A / ISO 18000-6B optional capability
- Supports Dense Reader Mode (DRM)
- Adjustable Tx output power levels
- Configurable RSSI, optional LBT and other protocols
- Advanced Power Management: Active, Power Down and Standby Modes
- Easy to use by USB HID transmission interface, Optional USB 2.0 Modes

Compliant with International Standards

- EPCglobal Class 1 Gen 2 / ISO 18000-6C
- Supported Regions:
 - US, Canada and other regions following US FCC Part 15 regulations;
 - Europe and other regions following ETSI EN 302 208 with and without LBT regulations;
 - China, India, Japan, Korea, Malaysia and Taiwan
- Certifiable to FCC, ETSI, NCC, SRRC and others
- RoHS, CE, UL

Asia Supply Chain Advantage

- Superior quality, product reliability, affordability for mass market production

Best Value

- Low cost affordable hardware solution
- Frequency coverage from 865-928 MHz
- High Tx Output Power and Adjustable Output Power
- Dense Reader Mode (DRM), LBT, Other Protocols, Configurable RSSI
- Integrated power detectors for forward and reverse power sense
- Integrated heatsink for continuous operation
- Impinj Indy™ R1000 ASIC and API
- USB 2.0 (12 Mbps)

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Product Specifications

Features	<ul style="list-style-type: none">• Compliant with EPCglobal C1G2 / ISO 18000-6C• Dense Reader Mode (DRM) Capability• Adjustable Output Power (up to +24dBm Max.)• Built-in antenna• Exceptional Performance and Reliability• Low Power Consumption• Powered by USB interface• FCC & ETSI Certification• Read distance up to 4 feet (1.2m)
Air-Interface Protocols	EPC Gen 2 / ISO 18000-6C
Frequency Band	<ul style="list-style-type: none">• FCC 902~928 MHz• ETSI 865~868 MHz• NCC 922~928 MHz• SRRC 920~925 MHz
Output Power	Adjustable from +5 to +24dBm in 1dB steps
Supply Voltage	5VDC (Powered by USB interface)
Current Consumption	<ul style="list-style-type: none">• Idle mode: 0.25A• Scan mode: 0.8A@+24dBm
Host Communication Interfaces/Data Rates	<ul style="list-style-type: none">• USB 2.0 Full Speed: 12 Mb/s
Regulatory	Certifiable to <ul style="list-style-type: none">• FCC 47 CFR Ch. 1 Part 15• ETSI EN 302-208• NCC LP002• RoHS
RFID Silicon	Impinj Indy™ R1000
Physical Size	80 mm (L) x 55 mm (W) x 11 mm (H)
I/O Connections	USB mini B connector
Antenna	Built-in
Environment	<ul style="list-style-type: none">• Storage Temperature: -40°C to 85°C• Operating Temperature: -20°C to 55°C

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