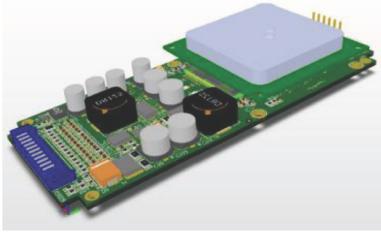


ThingMagic® RAIN Starter Kit



122.5 mm L x 50 mm W x 10.5mm H

Features & Benefits:

- Built around proven ThingMagic Nano module
- Highly integrated UHF RFID reader with ARM based Cortex-M4 architecture
- Board-mounted antenna with read range up to 2 meters
- USB interface simplifies communication
- RAIN Communication Interface supports RAIN RFID technology standards

Affordable RAIN® RFID Learning Platform

RAIN RFID is a wireless technology connecting billions of everyday items to the internet, enabling businesses and consumers to identify, locate, authenticate, and engage each item. The starter kit provides an easily accessible and affordable platform for students and hobbyists to use when learning to apply this technology, while also promoting best practices for using RAIN RFID.

ThingMagic RAIN Starter Kit consists of the ThingMagic RAIN reader, which is based on ThingMagic EL6e, and sample RAIN tags from RAIN RFID Alliance members. The starter kit delivers out-of-box item connectivity utilizing the Impinj Indy R500 RAIN RFID reader chip and sample RAIN tags from RAIN RFID Alliance members.

The RAIN Starter kit is exclusively distributed by atlasRFIDstore.com, the leading, global distributor of RAIN RFID hardware.

Highlights:

- Speed and ease of integration due to all-in-one embedded solution that includes reader module, antenna, and processor to RFID-enable applications.
- Support a new developer friendly interface between applications and RAIN RFID readers – RAIN Communication Interface (RCI). For more information on the RCI specification and the RAIN Alliance visit <https://rainrfid.org/>.
- Not intended for professional use. Product includes 90-day warranty for manufacturing defects.

Ideally suited scenarios include:

- Students and hobbyist looking to learn RAIN RFID technology and best practices for implementation



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ThingMagic® RAIN Starter Kit

| Physical | |
|---|--|
| Dimensions | 50 mm (W) x 122.5 mm (L) x 15.5 (H) mm with antenna |
| Mounting Holes | 4 mounting holes with 2.5 mm ID |
| Tag / Transponder Protocols | |
| RFID Protocol Support | EPCglobal Gen 2V2 (ISO 18000-63) |
| RF Interface | |
| Antenna | Board-mounted antenna EU or NA frequency range, RHCP, 3 dBi nominal gain |
| Antenna Connector | U.FL connector for an externally mounted antenna |
| RF Power Output | Read and write levels adjustable from 0 to +27 dBm in 0.01 dB steps |
| Region Selections for High Band Freq. Range (915-928 MHz) | FCC (NA, SA), Argentina, Australia, Bangladesh, China, Indonesia, Japan, Korea, Macao, Malaysia, New Zealand, Philippines, Singapore, Taiwan, Thailand |
| Region Selections for Low Band Freq. Range (865-868 MHz) | ETSI (EU), Hong Kong, India, Russia, Vietnam |
| Data/Control Interface | |
| Control/Data Interfaces | USB |
| GPIO Sensors and Indicators | 4 3.3V GPIO ports: 1 input (sensor), 1 service and 2 output (indicator) lines |
| User Indicators | 2 bi-color LEDs and audio signal |
| Power | |
| Power Consumption (Full RF Output Power) | USB Powered: 5VDC +/- 10% at 3.5 W; External Power: 4.5-10 VDC at 4.9 W; 10-26 VDC at 4.4 W |
| Regulatory Certifications & Environment | |
| Certifications | M6E-NANO modular certifications incl. USA (FCC 47 Part 15), Canada (RSS-210), EU (ETSI EN 302 208 v3.1.1, RED 2014/53/EU) & FCC Class A for incidental emissions (EMI) |
| Environmental | RoHS, REACH |
| Temperature | Operating 0°C to +50°C; Storage -40°C to +70°C |
| Vibration (Without Antenna) | Sinusoidal vibration 1.0" peak to peak displacement 5-14 Hz; 10g acceleration 14-500 Hz, 1.0g from 500-2000 Hz; 30 min linear freq. sweep on 3 axes. |
| Performance | |
| Max Read Rate | Up to 5 tags/second |
| Max Tag Read Distance | Up to 2 m (6 ft) reliant on power availability, antenna choice and tag size |
| Ordering Information | |
| PLT-RFID-RAIN-USB-DEVKIT | Includes multiregional USB module, USB cable, EU and NA antennas, sample tags and quick start guide |

ABOUT JADAK:

JADAK, a business unit of Novanta, is a market leader in machine vision, RFID, barcode, printing, and color and light measurement products and services for original equipment manufacturers. The business designs and manufactures embedded detection and analysis solutions that help customers solve unique inspection, tracking, scanning and documenting challenges. JADAK is based in Syracuse, New York, with sales and technical locations across the globe.

ThingMagic is JADAK's RFID line of products.

Novanta is a trusted technology partner to OEMs in the medical and advanced industrial technology markets, with deep proprietary expertise in photonics, vision and precision motion technologies.

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