**USBPro RFID Reader**

World-class UHF RFID Desktop Reader

The ThingMagic USBPro RFID Reader allows solutions developers to support applications that require desktop reading and writing of EPC Global Gen2 tags as well as other protocols such as ISO18000-6B, IPx and AEI ATA through additional license. Based on ThingMagic’s best-in-class M6e-Micro LTE UHF RFID module, the USBPro RFID Reader is controlled and powered by a host PC or laptop through a USB interface, and, in addition, supports autonomous operation. The ThingMagic USBPro RFID Reader is compatible with ThingMagic’s application development tools, including Universal Reader Assistant, permitting rapid creation of solutions to support a wide range of applications, including tag commissioning, manufacturing WIP, document tracking, retail POS, and workflows for healthcare, events, and hospitality.

### Ordering Information

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### Tag / Transponder Protocols

| Protocol Support         | EPC Gen2V2 ISO18000-63 standard ISO18000-6B, IPx, AEI ATA are available through additional license |

### RF Interface

| Antenna Ports | Internal antenna with an average gain of +1 dBi from 865-869 MHz and 902-928 MHz, External RP-SMA antenna connector |
| RF Power Output | Separate read and write levels (into the antenna) are command-adjustable from -5 dBm to 30 dBm* (1W), +/- 1.0 dBm accuracy with +20 dBm default |
| Frequency | Pre-configured for the following regions: FCC 902-928, 917.4-927, 917.5-922.5 MHz (Americas), ETSI 865.6-867.6 MHz, 869.85 MHz (EU), TRAI 865-867 MHz (India), KCC 917-920.8 MHz (Korea), ACMA 920-926 MHz (Australia), SRRC-MF 920-925 MHz (P. R. China), MIC 916.7-920.9 MHz (Japan), Open (Customizable) 865-869 and 902-928 MHz |

### Data/Control Interface

| Physical | USB Micro-B connector, with removable six (6) foot cable with dual USB-A type plug |
| Signaling | USB 2.0 |
| I/O | Two I/O command controlled LEDs and two I/O command queried switches |
| Protocol | Command-response protocol protected by length field and 16-bit CRC |

### Physical

| Dimensions (not including stand) | 97 mm L x 61 mm W x 25 mm H (3.8 in L x 2.4 in W x 1.0 in H) |

### Regulatory & Safety

**Regulatory**
- FCC 47 CFR Ch. 1 Part 15, Industrie Canada RSS-210 0, ETSI EN 302 208 V1.4.1

**Safety**
- IEC 60950-1 (ed.2)
- US-17650-UL

### Power

**DC Power Required**
- DC Voltage: 4.5 to 5.5 VDC from USB cable
- DC Power: 6.2 W max
- Supplied interface cable terminates in two type-A plugs: one for power and signal, the second for additional power if needed

**Idle Power Consumption**
- 0.35 W max at idle
- (Power management modes can be used to reduce this to as little as 0.1 W)

### Environment

**Operating Temp.**
- -40C to +60C*

**Storage Temp.**
- -40C to +85C

### Architecture

**User Memory**
- 16 kB

**Tag Buffer**
- 200 tags

### Performance

**Tag Read Rate**
- 50 tags/second

**Tag Read Distance**
- Up to 4 feet (1.2m) depending on tag sensitivity and orientation with internal antenna. Up to 20 feet (6.1m) with external 6dBi linearly polarized wideband antenna.

* Duty cycle restrictions based on temperature, tx power >23dBm
MAKING RFID EASY TO USE

ThingMagic is dedicated to driving the barriers to deploying RFID technology as low as possible. We design our products to be easy to use out-of-the-box and to deliver predictable, reliable, and repeatable performance. Our development tools require little RFID expertise, enabling you to rapidly design, test, and deploy your RFID solutions.

Hardware Developers Kit
Everything needed to read and write RFID tags and begin developing RFID-enabled applications:
- USBPro Reader
- SMA to RP-SMA Cable
- USB Cable
- Antenna
- Sample Tags

Mercury API SDK
A common development platform, supporting an extensive variety of hardware to connect, configure, and control ThingMagic readers.

Universal Reader Assistant
A utility for advanced demo, testing, and tuning of all ThingMagic readers.

Autonomous Configuration Tool
Utility to configure USBpro reader to operate without a host controller.