

# ThingMagic USBPro RFID Reader

## UHF RAIN 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 (read only) through additional license. Based on ThingMagic's M6e-Micro module, the USBPro RFID Reader is controlled and powered by a host P or laptop through a USB interface and supports autonomous operation. The USBPro RFID Reader is compatible with ThingMagic's MercuryAPI application development tools, including Universal Reader Assistant, permitting rapid creation of solutions. USBPro supports a wide range of applications, including tag commissioning, manufacturing work in progress, document tracking, retail Point of Sale, and workflows for healthcare, events, and hospitality.



97 mm L x 61 mm W x 25 mm H  
(3.8" L x 2.4" W x 1.0" H)

Ordering Information	
<b>Reader</b>	USB-6EP
<b>Development Kit</b>	USB-6EP-DEVKIT
Tag / Transponder Protocols	
<b>RFID Protocol Support</b>	EPC Gen2V2 ISO18000-63 standard ISO18000-6B, IPx, AEI ATA (read only) are available through additional license
RF Interface	
<b>Antenna Ports</b>	Internal antenna with an average gain of +1 dBi from 865-869MHz and 902-928MHz, External RP-SMA antenna connector
<b>RF Power Output</b>	Separate read and write levels (into the antenna) are command-adjustable from -5 dBm to 30 dBm* (1W), +/- 1.0 dBm accuracy with +20dBm default
<b>Frequency</b>	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-MII 920-925 MHz (P. R. China) MIC 916.7-920.9 MHz (Japan) Open (Customizable) 865-869 and 902-928 MHz
Data/Control Interface	
<b>Physical</b>	USB Micro-B connector, with removable six (6) foot cable with dual USB-A type plug
<b>Signaling</b>	USB 2.0
<b>Input/Output</b>	Two I/O command controlled LEDs and two I/O command queried switches
<b>Protocol</b>	Command-response protocol protected by length field and 16-bit CRC

Regulatory Information	
<b>Regulatory</b>	FCC 47 CFR Ch. 1 Part 15, Industrie Canada RSS-21 0, ETSI EN 302 208 v3.1.1 (RED 2014/53/EU)
<b>Safety</b>	IEC 60950-1 (ed.2) US-17650-UL
Power	
<b>DC Power Required</b>	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
<b>Idle Power Consumption</b>	0.35 W max at idle (Power management modes can be used to reduce this to as little as 0.1 W)
Environment	
<b>Operating Temp.</b>	-40°C to +60°C*
<b>Storage Temp.</b>	-40°C to +85°C
Architecture	
<b>User Memory</b>	16 kB
<b>Tag Buffer</b>	200 tags
Performance	
<b>Tag Read Rate</b>	50 tags/second
<b>Tag Read Distance</b>	Up to 10 m (30 feet) with external antenna and up to 1.2 m (4 feet) depending on tag Sensitivity and orientation with internal Antenna with max RF power.

\*Duty cycle restrictions based on temperature, tx power >23dB



**JADAK**  
A Novanta Company

**USA Office**  
phone: +1 315.701.0678  
email: info@jadaktech.com  
web: jadaktech.com

**European Office**  
phone: +49 89 31 707 100  
email: info@jadaktech.com

**Asia Pacific Office**  
phone: +86 512.6283.7080  
email: info@jadaktech.com