

USB-6EP Datasheet

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DiGi Electronics Part Number	USB-6EP-DG
Manufacturer	ThingMagic, a JADAK brand
Manufacturer Product Number	USB-6EP
Description	RFID READER R/W 865-928MHZ
Detailed Description	RFID Reader Module 865MHz ~ 928MHz

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Manufacturer Product Number:

USB-6EP

Series:

-

Type:

Read/Write

Interface:

USB

Package / Case:

Finished Unit

Base Product Number:

USB-6

Manufacturer:

ThingMagic, a JADAK brand

Product Status:

Obsolete

Frequency:

865MHz ~ 928MHz

Standards:

EPC, ISO 18000-6

Supplier Device Package:

-

Environmental & Export classification

RoHS Status:

RoHS Compliant

ECCN:

EAR99

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

8517.62.0090

ThingMagic USBPro RFID Reader



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

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.

Ordering Information	
Reader	USB-6EP
Development Kit	USB-6EP-DEVKIT
Tag / Transponder Protocols	
RFID Protocol Support	EPC Gen2V2 ISO18000-63 standard ISO18000-6B, IPx, AEI ATA (read only) are available through additional license
RF Interface	
Antenna Ports	Internal antenna with an average gain of +1 dBi from 865-869MHz and 902-928MHz, 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 +20dBm 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-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	
Physical	USB Micro-B connector, with removable six (6) foot cable with dual USB-A type plug
Signaling	USB 2.0
Input/Output	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

Regulatory Information	
Regulatory	FCC 47 CFR Ch. 1 Part 15, Industrie Canada RSS-21 0, ETSI EN 302 208 v3.1.1 (RED 2014/53/EU)
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.	-40°C to +60°C*
Storage Temp.	-40°C to +85°C
Architecture	
User Memory	16 kB
Tag Buffer	200 tags
Performance	
Tag Read Rate	50 tags/second
Tag Read Distance	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

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