

USB-5EC Datasheet

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DiGi Electronics Part Number	USB-5EC-DG
Manufacturer	ThingMagic, a JADAK brand
Manufacturer Product Number	USB-5EC
Description	RFID READER R/W 860-960MHZ MOD
Detailed Description	RFID Reader Module 860MHz ~ 960MHz Module

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Purchase and inquiry

Manufacturer Product Number:

USB-5EC

Series:

-

Type:

Read/Write

Interface:

USB

Package / Case:

Module

Manufacturer:

ThingMagic, a JADAK brand

Product Status:

Obsolete

Frequency:

860MHz ~ 960MHz

Standards:

EPC, ISO 18000-6

Supplier Device Package:

Module

Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

8471.50.0150

ECCN:

EAR99



USB *Plus+* RFID Reader

World-class UHF RFID Desktop Reader



The ThingMagic USB *Plus+* RFID Reader is ideal for applications that require reading and writing of EPC Global Gen2 tags on a desk or workstation and in areas where space is limited. The USB *Plus+* is controlled and powered by a host PC or laptop through a USB interface and is compatible with ThingMagic's application development tools, permitting rapid creation of RFID solutions. With a software adjustable read distance up to 3 ft (0.91 m), the USB *Plus+* supports a variety of applications, including RFID tag commissioning, manufacturing WIP, document tracking, library book check in/out, retail point of sale, event and hospitality services, hospital patient workflows, and more. The high-performance internal antenna of the USB *Plus+* is also ideal for commissioning high memory tags and reading small form factor RFID tags more effectively.

Ordering Information

Reader	USB-5EC
Development Kit	USB-5EC-DEVKIT

Tag / Transponder Protocols

RFID Protocol Support	EPCglobal Gen 2 (ISO 18000-6C) with Anti-Collision and DRM
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RF Interface

Antenna	Internal linear polarized antenna with peak Gain 1 dBi from 860-960 MHz
RF Power Output	Separate read and write levels (into the antenna) are command-adjustable from 10 dBm to 23 dBm (200mW), +/- 1.0 dBm accuracy
Frequency	Pre-configured for the following regions: FCC 902-928 MHz (Americas) ETSI 865.6-867.6 MHz, 869.85 MHz (EU) KCC 917-920.8 MHz (Korea) TRAI 865-867 MHz (India) ACMA 920-926 MHz (Australia) SRRC-MII 920-925 MHz (P. R. China) 'Open' (Customizable) 860-960 MHz

Data/Control Interface

Physical	USB mini-B connector, with 2 foot (61 cm) cable terminated in A-type plug
Signaling	Asynchronous serial interface with 3.3/5V logic levels; baud rates from 9600 to 921,600 bps
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)
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Regulatory & Safety

Regulatory	FCC 47 CFR Ch.1 Part 15 Industrie Canada RSS-210 ETSI EN 302 208 v1.4.1
Safety	IEC 60950-1 (ed.2) US-17650-UL

Power

DC Power Required	DC Voltage: 5 VDC (Powered by USB interface) DC Power: 2.7 W (540 mA) 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	1.7 W max at idle (Power management modes can be used to reduce this to as little as 0.1 W)

Environment

Operating Temp.	-20C to +60C
Storage Temp.	-40C to +85C

Architecture

User-accessible Flash Memory	16 kB
Tag Buffer	200 tags

Performance

Tag Read Rate	Up to 200 tags/second
Max Read Distance	Up to 3 ft (0.91 m) depending on tag sensitivity and orientation

Specifications subject to change without notice.

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