



Embedded Reader HF

R800 LEGIC



PRODUCT DESCRIPTION

The LEGIC Embedded Reader R800 from iDTRONIC is a 5V reader with integrated antenna. It offers full LEGIC Prime and Advant support. Furthermore ISO 14443A/B as well as ISO 15693 transponders are backed.

The LEGIC Embedded Reader R800 can be equipped with a choice of different interface options. TTL, RS232 and various USB versions are available.

Depending on the reader configuration of the LEGIC Embedded Reader R800, a LEGIC or iDTRONIC SDK are provided.

APPLICATIONS

- **Payment**
- **Access Control**
- **Ticketing**

FEATURES

- **TTL, RS232, USB, USB (HID)**
- **External Antenna**
- **Includes LEGIC or iDTRONIC SDK**

RFID OPTIONS

- **ISO 14443 A/B**
- **ISO 15693**
- **LEGIC Prime**
- **LEGIC Advant**

TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Power Supply	5 VDC (± 5 % regulated)
Operating Distance	up to 8 cm (depending on tag and antenna type)
Built-in Antenna	External
Interface	TTL / RS232 / USB / USB (HID)

MECHANICAL SPECIFICATIONS

Dimensions	80 × 56 × 10 mm
Weight	13 g (maximal)

ENVIRONMENTAL CONDITIONS

Operating Temperature	-20 °C to +70 °C
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APPLICABLE STANDARDS

EMC	EN 301489-1:2012-04 (v1.9.21) EN 301489-3:2013-12 (V1.6.1)
Radio Regulation	EN 300330-1:2015-08 (V1.8.1) EN 300330-2:2015-08 (V1.6.1)
Safety	EN 60950-1:2014-08 EN 62369-1:2010-03 EN 50364:2010-11
RoHS	EC Guideline 2011/65/EU
Certificates	FCC, CE

SDK INFORMATION

Supported OS by FTDI USB VCP Driver	Windows Server 2008/2012 R2 x64
	Windows 7, 8, 8.1, 10
	Windows RT
	Windows CE (CE 4.2-5.2, 6.0/7.0, 2013)
	Linux Mac OSX Android

SUPPORTED STANDARDS / TAGS

ISO 14443 A	Read/Write: MIFARE® Classic Mini / 1K /4K, MIFARE Ultralight®, MIFARE Ultralight® C, MIFARE® DESFire®EV1, MIFARE® Smart MX, MIFARE® Plus S / X, MIFARE® Pro X, NTAG 21x
ISO 14443 B	Read UID only: Read UID only of all other ISO14443A RFID tags
ISO 15693	SRI4K, SRIX4K, AT88RF020, 66CL160S, SR176
LEGIC RF-Standard	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI / SLI-X, M24LR16 / 64, TI Tag-it HF-I, SRF55Vxx (my-d vicinity)
	Full read/write operation: LEGIC Advant; LEGIC Prim

ORDER CODES

VERSIONS

LEGIC Embedded Reader R800 - TTL
LEGIC Embedded Reader R800 - RS232
LEGIC Embedded Reader R800 - USB FTDI
LEGIC Embedded Reader R800 - USB FTDI (tunneled)
LEGIC Embedded Reader R800 - USB (HID)

ORDER CODES

OEM-LEG-R800-TTL
OEM-LEG-R800-232
OEM-LEG-R800-USB-FTDI
OEM-LEG-R800-USB-FTDI-D
OEM-LEG-R800-USB-HID

***READING DISTANCE DEPENDS ON TAG, ANTENNA AND ENVIRONMENTAL CONDITIONS.**