



**KTS**SYSTEME



## USB Reader

**SRR1356-001**

**SRR1356-003**

The KTS USB Reader is a flexible 13.56MHz RFID reader and writer with support for both ISO15693 and ISO14443A/B RFID transponders. It uses a high performance RFID transceiver IC, combined with the proven, robust KTS RFID embedded software stack. The RFID transceiver includes a powerful RF front-end with up to +23dBm (200mW) of output power, along with a dual channel receiver for improved reading performance.

As a USB bus powered device, the USB Reader requires no additional power supply and can be used in conjunction with desktop/laptop computers as well as common mobile operating systems. Thanks to a user-selectable USB HID virtual keyboard interface, the reader can be used for reading of tags without the installation of additional drivers. The default CDC virtual serial port mode allows extensive manipulation of reading and writing parameters, as well as integration into custom applications, using the flexible AT-stye command set for KTS readers.

The USB Reader can also be used in conjunction with the KTS Tag2Image RFID Asset Management System, which allows a high degree of customization and configuration options, as well as an extensive graphical user interface for managing multiple RFID tags.

The reader is available with either an integrated ferrite rod antenna or an SMA connector for use with an external antenna. The integrated high performance antenna allows direct reading and writing of most standard RFID transponders, and even plug-type transponders embedded within metallic objects, with no additional equipment. The SMA connector can be used to connect a standard 50Ω antenna for differing requirements in reading range, area and physical constraints.

# Technical Specifications

## Technical Specifications

<b>Product type</b>	USB RFID Reader/Writer with CDC & HID modes		
<b>Operating frequency</b>	13.56 MHz		
<b>Antenna connection</b>	Integrated ferrite rod antenna or SMA connector for 50Ω antenna		
<b>RF output power</b>	Up to +23dBm / 200mW		
<b>Power supply</b>	USB Bus Powered		
<b>Power consumption</b>	180mA avg.		
<b>RFID standard support</b>	ISO 15693, ISO14443A/B		
<b>Anticollision</b>	Supported		
<b>Standard host interfaces</b>	USB 2.0, UART w/ HW flow control		
<b>USB connection modes</b>	HID virtual keyboard mode (ISO15693 only) CDC virtual serial port mode		
<b>CDC instruction set</b>	Extensive AT-style command set for scanning, reading and writing tags as well as configuration		
<b>UI</b>	<b>Signalling LEDs</b>	Green	Run LED – Lights when reader is receiving power via USB and is on
		Yellow	Tag LED – Lights when RFID tag is detected within reading range
		Red	Data LED – Lights when data transfer to or from a tag is taking place
<b>Product certifications</b>	CE Certified		
<b>Dimensions</b>	90 x 21 x 14 mm [LxWxH] (SMA connector) 86 x 22 x 14 mm [LxWxH] (Integrated antenna)		
<b>Weight</b>	16g (SMA connector) 14g (Integrated antenna)		
<b>Order number</b>	SRR1356-001 – With SMA connector SRR1356-003 – With integrated antenna		

## Typical Applications

- Stationary reader/writer applications
- Mobile reader applications