**INTRODUCTION**

**ISRF-MFS1 RFID Mifare Smart Card Reader** utilizes 13.56Mhz RFID technology to read ASK modulation contactless proximity cards. Contactless proximity cards are used for many different applications, such as access control, vending, toll roads, airline ticketing, banking cards, city cards, id cards, university cards, loyalty schemes, phone cards, parking & elevator control.

**SPECIFICATIONS**

**Power Requirements**
DC7-12V at 100mA. A linear regulator is recommended.

**Interface**
Standard wiegand 26-64 bits for connection to standard access control panels. RS-232 interface -> baud rate : 9600, data bits : 8, stop bit : 1, parity : N for connection to PC’s or dedicated microcontrollers.

RS232 output data format : \texttt{AA B1 ... B15 CS BB} in Hex format. \texttt{AA} : \texttt{BOF}, \texttt{B1 to B15} : 15 paris HEX code, \texttt{CS} : \texttt{B1 xor \ldots xor B5}, \texttt{BB} : EOF

B1 to B15 equal the 15 bytes data stored in Mifare card readable block.

**Read Range**
Reading range for up to 7cm with ASK modulation contactless proximity card.

**Response Time**
Less than 0.1 second.

**RF Frequency**
13.56Mhz standard.

**Audio/visual Indication**
Red, Green LED and Beeper indication.

**Operating Temperature**
-22' to 150' F (-30' to 65' C).

**Operating Humidity**
0-95% relative humidity non-condensing.

**Dimensions**
85 mm x 85 mm x 20 mm

**Cable Distance**
Wiegand interface: 500 feet (150 m)
RS232 interface: 50 feet (15 m)

Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for LED or beeper control.