MIFARE® OEM Read/Write Module

OVERVIEW:

The MF5 MIFARE® read/write module is designed for fast integration into portable, stationary readers or payment system etc. The typical reading range of the module is up to 60mm depending on the antenna and TAG. Also printed circuit board antennas are supported for MF5SK Start Kit. The OEM read/write module was designed for simple integration. The Serial TTL-interface can be directly connected to microprocessors and easily converted to the RS232 serial interface device. The GNetPlus protocol is like industry MODBUS RTU. We also support the ActiveX Control and easy to control the MF5 module, The ActiveX Control can be using any terminal program (VB, VC++…etc) without writing a single line of code for communication.

FEATURES:

- Full MIFARE® functionality
- Support ISO14443A Card Type, MIFARE® Ultra-Light/1K/PRO Cart Type.
- Serial Interface, CMOS-TTL.
- Power supply 5VDC/ 80mA
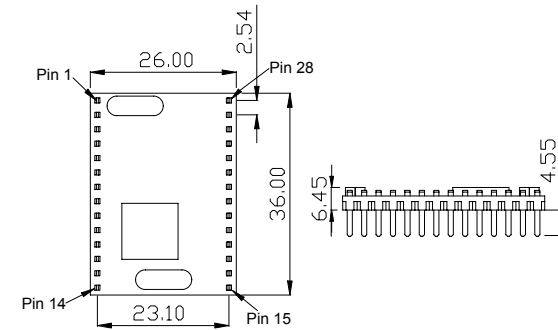- Support **In-System Program** (ISP) for OEM.
- Small size L36 x W26 x H6 mm

APPLICATIONS:

Amusement Park
POS, Retail
Mass Rapid Transit (MRT) system
Parking
Hotel
Access Control
VIP Club, Net Coffee

SPECIFICATION

Operating Frequency	13.56MHz
Antenna Impedance Output	50 Ohm symmetrical
Baud Rate	19200bps , Optional
Interface	Serial COMS-TTL
Supply Voltage	5VDC
Operating Current Max.	80mA
Size Dimensions.	L36 x W26 x H6 mm
Temperature Range	-10°C ~ 60°C

PIN ASSIGNMENT:

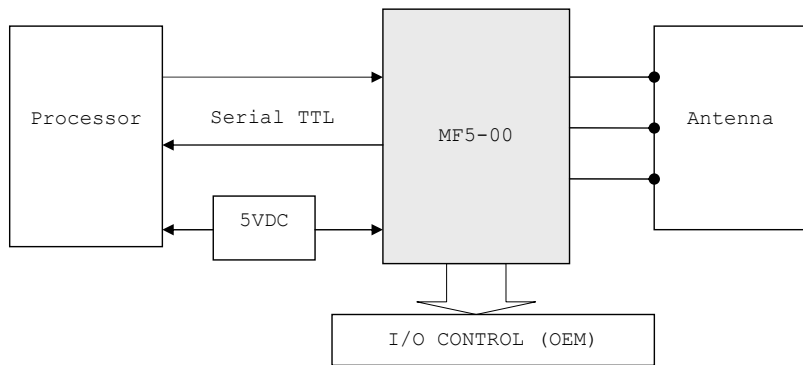| PIN NO	PIN NAME	DESCRIPTION
1	P1.0	Programmable I/O
2	P1.1	Programmable I/O
3	P1.2	Programmable I/O (FOR SK, ORG LED)
4	P1.3	Programmable I/O (FOR SK, GREEN LED)
5	P1.4	Programmable I/O (FOR SK, RED LED)
6	P1.5	Programmable I/O (FOR SK, BUZZER)
7	P1.6	Programmable I/O (FOR SK, RTSD)
8	P1.7	Programmable I/O (FOR SK, CTSD)
9	P4.0	Programmable I/O
10	P4.1	Programmable I/O
11	P4.2	Programmable I/O
12	P4.3	Programmable I/O (ISP Enable [note])
13	/INT	Programmable Interrupt
14	GND	Power GND
15	TXD	COMS-TTL Serial Data Output (FOR SK, TXD)
16	RXD	COMS-TTL Serial Data Input (FOR SK, RXD)
17	RST	Reset
18	NC	No Connect
19	NC	No Connect
20	NC	No Connect
21	NC	No Connect
22	NC	No Connect
23	TX22	RF Signal Output 1
24	TVSS	RF Signal GND
25	TX11	RF Signal Output 2
26	NC	No Connect
27	NC	No Connect
28	VCC	Power 5VDC

Note: ISP Enable when ISP PIN is logic low and RST pin logic high
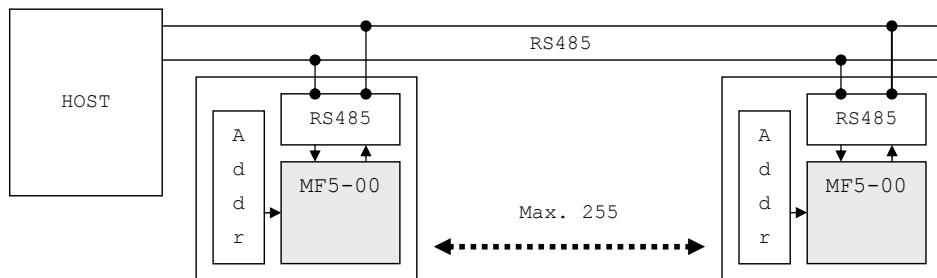
EXAMPLES:
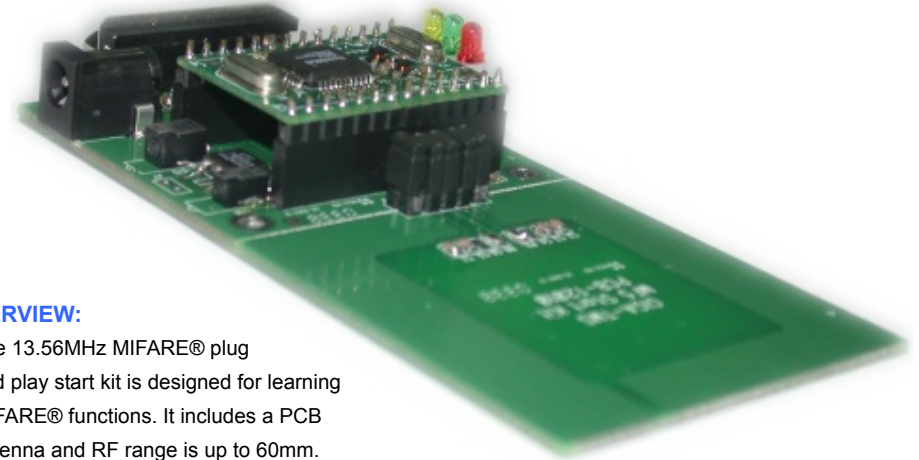
For Host System (MF5SK-00):

For Standalone (OEM):
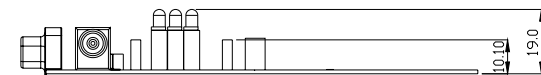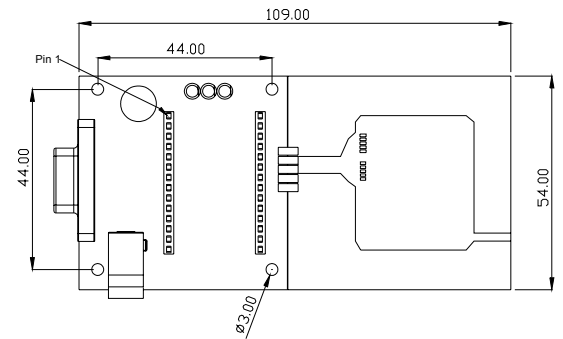

For Multi-Link (OEM)

MIFARE® Plug and Play Start Kit (MF5 Start Kit)

OVERVIEW:

The 13.56MHz MIFARE® plug and play start kit is designed for learning MIFARE® functions. It includes a PCB antenna and RF range is up to 60mm.
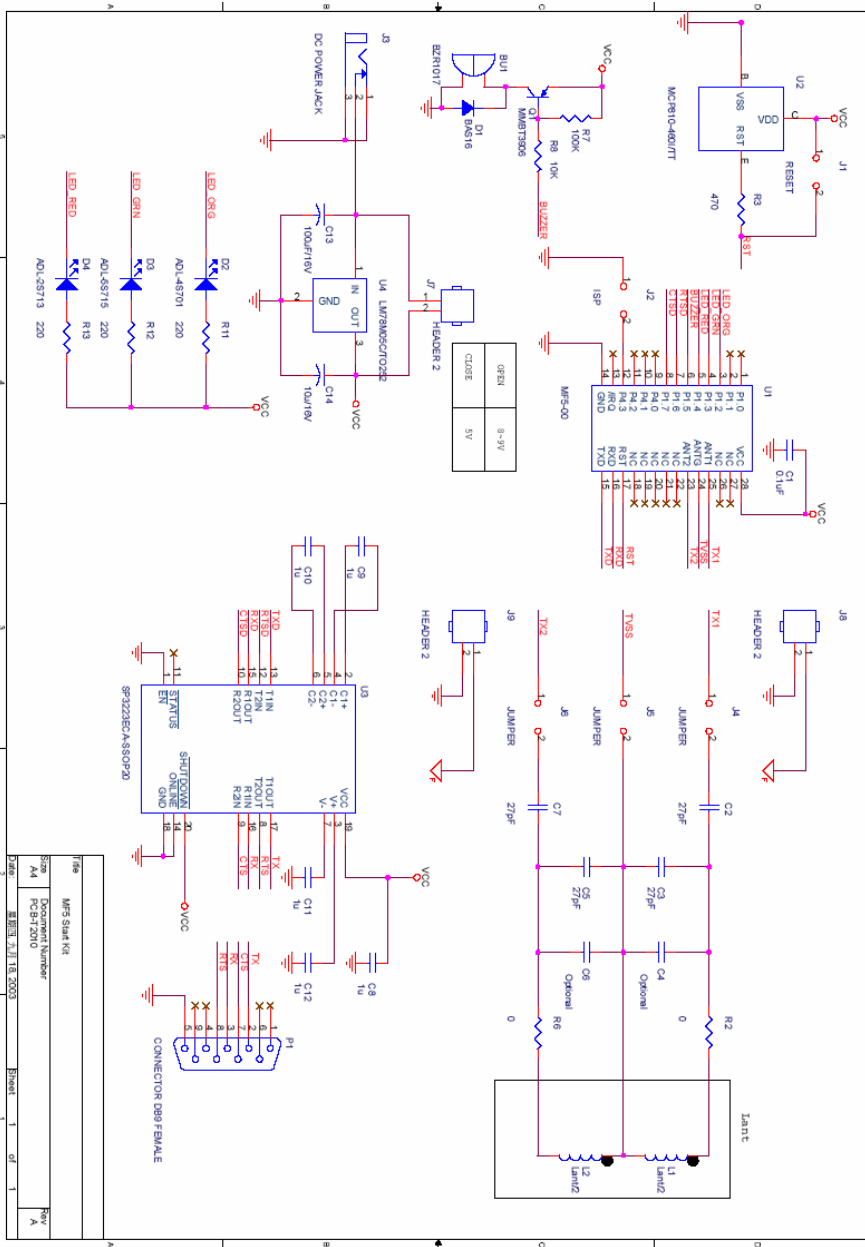
The RS232 serial interface can be connected to HOST (PC or Laptop) COM Port using the WAS-1404 cable.
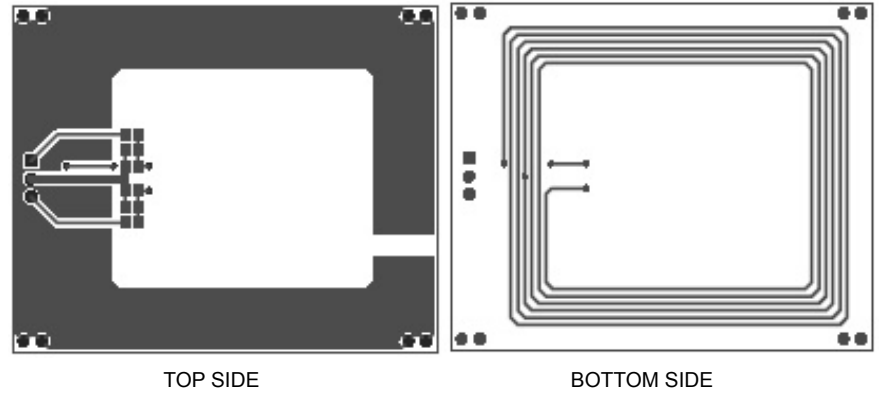

LED STATUS

ORANGE LED : POWR ON

GREEN LED   : READ DATA

RED LED   : WRITE DATA

MF5SK-00 CIRCUIT DIAGRAM

ANTENNA LAYOUT

RF Range Min. 50~60mm

TOP SIDE

BOTTOM SIDE

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