15693-RW-232-4W

RFID Reader/writer

GENERAL DESCRIPTION

It is designed for reading/writing data from/to ISO/IEC 15693 protocol tag. The reader system consists of reader/writer, RF antenna, communication cable with PC or servers. It is ideal for application where long range and high-speed item identification is required:

- Logistics management
- Supply chain management (SCM)
- Library tracking system
- Jewelry management system
- Inventory Tracking system
- Assess and Asset Control
- Licensing
- Anti-forgery and production control systems etc

Feature

- Operation frequency : 13.56 Mhz
- Support the tags with ISO/IEC 15693 communication protocol
- Anti-collision read available, identify rate : 30~50 tags/s
- Reading range : 50-70 cm for ISO card / 20-30 cm for tag label
- RF output power : 4W
- Support 50Ω RFID external antenna (30 X 42 cm) with single SMA connection
- Optional - Multi-antenna support (max. 4 per unit)
- Communication interface : RS232
- Fanless operation
- Supply DLL function for development by VC
- I/O interface : 1 input, 2 output, built-in relay output
- Power supply: +12V , Operating current : 0.8A
- Dimension : 21 X 14 X 4 cm

Interface

1. Power Supply

Wire Color	Description
Red	(Vcc): +12V (center +ve)
Black	Ground (GND)
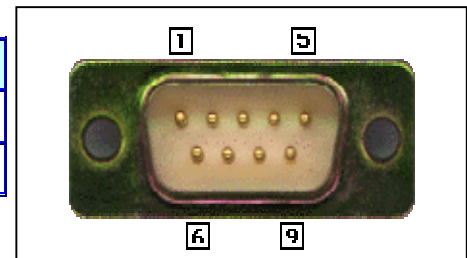
2. DB9 Interface

Pin number	Assignment	Description
1	G_IN1	TTL Level Input,internal 20K resistor connect +5 V
2	TXD	RS232 Transmit
3	RXD	RS232 Receive
4	G_OUT1	TTL Level Output, Vout Max Load current 5mA
5	GND	Gnd
6	G_OUT2	TTL Level Output ,Vout Max Load current 5mA
7	COMMON	Relay Common ,C
8	N_C	Relay Normal Close , NC
9	N_O	Relay Normal Open , NO

3. Characteristics

Electrical and Mechanical Specification (Under Ta =25°C,Vcc=12V unless specified)

Item	Min.	Typ.	Max.	Unit
Power supply ,Vcc	11.5	12	15	V
Operating Current ,Icc		0.8	1.2	A
Operating Frequency		13.56		Mhz
Reading Range		50 - (ISO Card-54x86x0.8mm)	70	cm
		20 - (tag label - 28x45 mm)	30	cm
Relay Current		1A (at 24VDC)/0.5A (at 125VAC)		A
Dimension – 1W reader		21 X 14 X 4		cm
Dimension – Antenna		30 x 42 X 1 (main plate)		cm
		10 x 6.5 x 5 (antenna box)		

Connection Diagram

DB9 cable from reader to PC com port		12V power supply
PC	15693 Reader	Antenna

DB9 connector To PC

12V DC (center-postive)

| 1 | | | | 5 |
| 6 | | | 9 | |
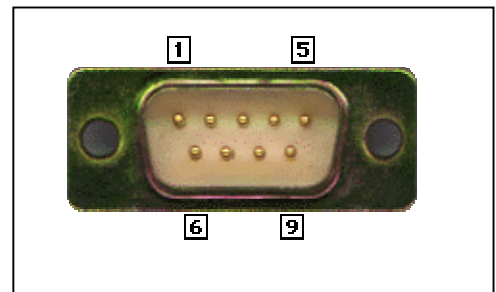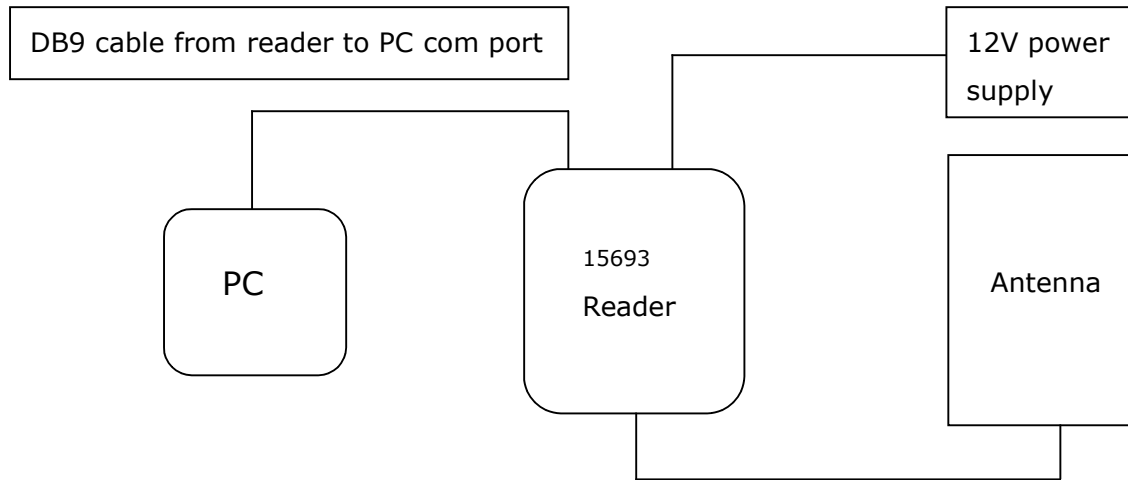
Front Side View of the **Reader**