STALLION
Smarter... Faster... Higher...

STA 4R1207E

--- 4-Port Fixed RFID Reader

STA 4R1207E UHF 4-Port Fixed RFID Reader is an updated RFID reader based on New Generation RFID Technology Platform. The STA 4R1207E is an ultra-high frequency (UHF) EPC Gen2 reader that features four mono-static antenna ports. This rugged STA 4R1207E reader is housed in a Die-cast Aluminum chassis and supports all cabling on one single side, making it ideal for physical restricted locations and / or locations with limited cabling.

The STA 4R1207E, combined with ARM CORTEX M3 Professor, 16Kbits reader memory & 32Kbits Nonvolatile FRAM, as well as advanced UHF RFID electronics circuit, has richer features for different applications, and performs more safely and stably. The upgrade STA 4R1207E reader is fully compatible with previous readers.

Features / Benefits

- **Robust metal chassis, slim form-factor…**

For installation in height-restricted places

- **4 mono-static reader ports…**

Ensure fast, simultaneous identification of multiple tags

- **With reader memory…**

16Kbits reader memory and 32Kbits Nonvolatile FRAM ensure data safety

- **Fully compatible with old version reader**

Not need to change existed system..

- **Complies with certifications . . .**

ISO-9001:2000, FCC Part 15, CE.

Applications:

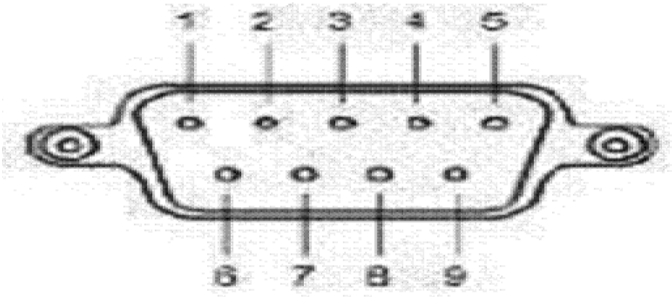
- Asset Management
- Supply Chain
- Retail & Apparel
- manufacturing
- Vehicle access control management

SPECIFICATIONS

Model number	**STA 4R1207E**
RFID	
Air Interface protocol	ISO 18000-6C (EPC Class 1 Gen 2) ISO18000-6B
Frequency Band	865MHz - 867MHz
Channels	50 (applicable to 902.5-927.5MHz frequency range)
Channel spacing	500KHz (applicable to 902.5-927.5MHz frequency range)
RF Power	0 to +31dBm
Receive Sensitivity	-80dBm
Antennas	4 high performance, mono-static antenna ports with Antenna impedance detection feature
HARDWARE AND FIRMWARE MANAGEMENT	
Processor	ARM CORTEX M3 100M
Memory	RAM 16Kbits + FRAM 32Kbits.
Reliable firmware upgrade	Web Management-based firmware upgrade capability; CommPort based firmware upgrade capability
API Support	.NET
CONNECTIVITY	
Communications	10/100 BaseT Ethernet (RJ45); RS-232 (DB9), RS-485
GPIO	2 inputs, TTL compatible, 0-5V, 2 outputs, TTL compatible, 0-5V, 3channel relay output control 0-250V AC
Power Supply	+9V to +15V DC, external universal power supply with locking connector
ENVIRONMENTAL & PHYSICAL CHARACTERISTICS	
Operating Temperature	-20℃ to +60℃ (-4℉ to +140℉)
Storage Temperature	-40℃ to +80℃ (-40℉ to +176℉)
Humidity	5-95% non-condensing
Dimensions (L x W x D)	12.2 x 8.3 x 1.5 in (31 x 21 x 3.8 cm)
Weight	4.4 lbs ± 0.04 lbs (2 kg ± 0.02 kg)
Housing Material	Die-cast Aluminum, meets IP53 standards
REGULATORY COMPLIANCE	
Certifications	FCC Part 15 regulations; CE certificate, following ETSI EN 302 208 v1.2.1 without LBT regulations.ISO-9001:2000

PIN Definitions

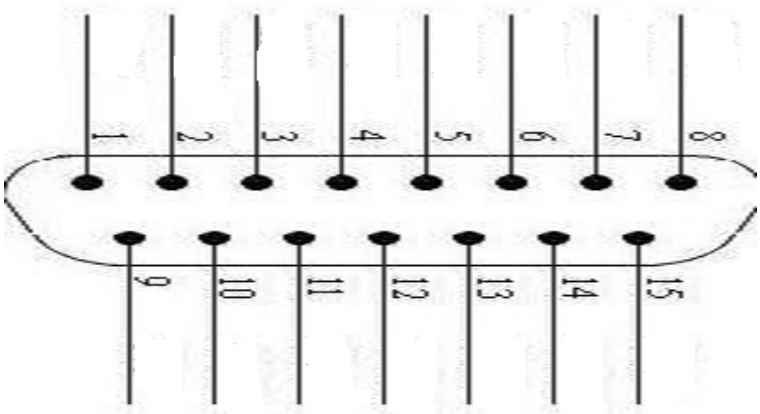
DB9 diagram



DB9 Definitions

Pin Number	Definition
1	N/A
2	RS-232 Output
3	RS-232 Input
4	N/A
5	GND
6	N/A
7	N/A
8	N/A
9	N/A

DB15 diagram



DB15 Definitions

Pin Number	Definition
1	GPIO Output
2	GPIO Output
3	GND
4	N/A
5	N/A
6	GND
7	GPIO Input
8	GPIO Input
9	GND
10	RS485 A+
11	RS485 B-
12	GND
13	Relay OFF (default)
14	Relay COM
15	Relay ON

Appearance & CAD Structure Chart