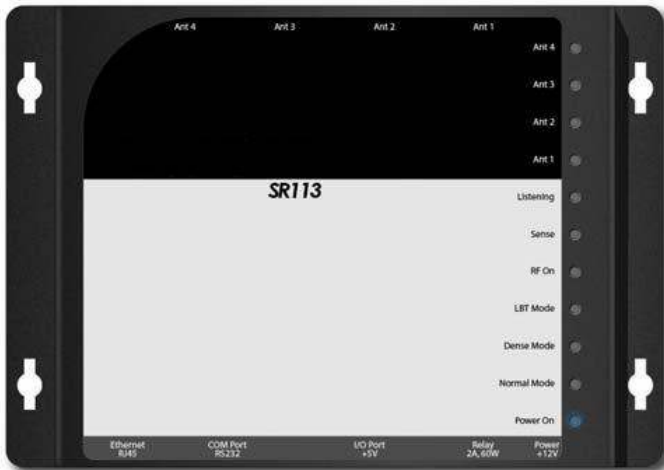


UHF Reader SR113



Features

- 860MHz to 960MHz freq range
- Multi-protocol
- Dense Reader Mode
- Listen Before Talk
- 1 watt max output power
- 4-port antenna output
- Field upgradeable Firmware
- LED status for reporting

Product Overview

The SR113 is a multi-protocol **Ultra High Frequency** RFID reader specifically designed for a wide variety of RFID applications. It comes with standard 4-port antenna deployment configurations to optimize operating performance. Flexible interface options through Ethernet, RS232, RS485, Wiegand and general I/O ports are available to ensure convenient connectivity. The SR113 also supports field firmware upgrades for application enhancement and to protect hardware investments. **Listen Before Talk** and **Dense Reader Mode** features are also supported.

Range

- Read 4m (tag dependent)
- Write is 70% of Read range

Protocols

- ISO18000-6C
- ISO18000-6B
- EPC Generation2
- EM Microelectronics-Marlin SA

Electrical and RF Specifications

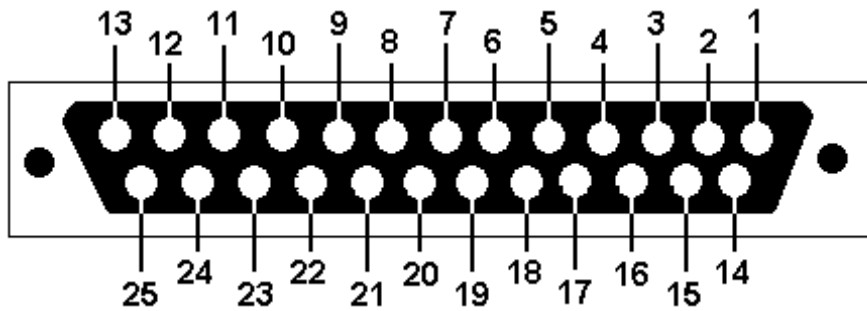
Parameter	Min	Typ	Max	Unit
RF Specifications				
Frequency	860		960	MHz
Channel Bandwidth	200		500	KHz
Carrier Frequency Shift		+/-5		ppm
Transmit power	15		30	dBm
Transmit power step control		1.0		dBm
Antenna output impedance		50		Ohm
Receiver Sensitivity	-93	-95	-97	dBm
Power				
Supply Voltage	11	12	13	Vdc
Current		2		Amp
Current (Idle)		0.18		Amp
Data Interface				
RS232 (DB9)	9.6		115.2	kbps
Ethernet (RJ45)		10/100		Base-T
RS485 (DB25) - optional				
Wiegand (DB25) - optional				

Environmental Specifications

Parameter	Min	Typ	Max	Units
Temperature				
Operating	-20°		60°	celsius
Storage	-35°		85°	celsius
Humidity	0%		90%	

Mechanical Specifications

Size	Values
LxBxH	264 x 185 x 37mm
Weight	2.0 kg
Case material	Aluminium
Antenna connector	SMA female



MMXC-Female	Description
PIN 1	RS485 + Tx
PIN 2	RS485 - Tx
PIN 3	RS485 - Rx
PIN 4	RS485 + Rx
PIN 5	I/O IN1
PIN 6	I/O IN2
PIN 7	I/O Out 1
PIN 8	I/O Out 2
PIN 9	Wiegand 1
PIN 10	Wiegand 2
PIN 11	NC
PIN 12	NC
PIN 13	GND
PIN 14	GND
PIN 15	Power LED
PIN 16	RF on LED
PIN 17	Sense LED
PIN 18	Listening LED
PIN 19	Ant 1 LED
PIN 20	Ant 2 LED
PIN 21	Ant 3 LED
PIN 22	Ant 4 LED
PIN 23	Normal mode LED
PIN 24	Dense mode LED
PIN 25	LBT mode LED