

HF RFID Long-Range Interrogator SLRM 1000



This new HF reader system was designed to fully utilize the advantages of the ISO18000-3mode3 standard as well as supporting ISO15693. By working with 424 kHz downlink data rates it is the first HF RFID-system which shows the impressive speed known from UHF systems.

By utilizing 16 antenna ports it supports not only 16 single antennas but as well several multi-axis antennas with one system.

The usage of multi-axis antenna systems allows this highly sophisticated reader system a 100% detection of tagged items regardless of their orientation. It identifies more than 100 labels in one stack. It detects more than 1000 transponders on one antenna. And all of these with rates of 400 transponders per second.

An integrated high-level command library along with the SDK and the demonstration software (GUI) ensures the convenient and fast integration of this reader system into RFID applications, minimizing time to market.

Take the opportunity to conquer the future by advancing your system with the SLRM1000.

Features

- Fully extends Electronic Product Code (EPC) functionality to HF
- Operates 16 individual Antennas
- Identifies 450 tags per second
- Reads 100 and more stacked or overlapping transponders
- Supports multi-axis antennas and enables instant movement detection
- Appropriate antennas show simplest tuning procedure
- Variable connectivity via Ethernet, USB or RS232
- 8 port decoupled digital IO interface

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froschelectronics GmbH

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HF RFID Long-Range Interrogator SLRM 1000

Dimensions:

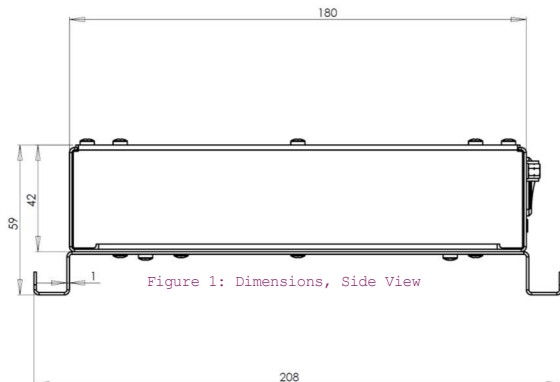


Figure 1: Dimensions, Side View



Figure 2: Front View



Figure 3: Back View



Figure 4: Side View

Electrical Specifications

Operating Frequency	13,56 MHz
Compliances	ISO18000-3mode3, ISO15693
Uplink Data Rate	Up to 80 kHz, depending on standard
Downlink Data Rate	Up to 424 kHz
Number of Antenna IOs	16
Operating Range	Up to 1 m, depending on Tag type
Transmitted Power	0,5W – 8W, adjustable
Modulation Index	15-25%
Inputs	4, decoupled
Outputs	4, decoupled
Power Supply	15-18V DC
Power Consumption	Up to 20W

Mechanical Specifications

Dimensions (W x H x D)	185 mm x 193 mm x 48mm
Weight	Ca. 1250g

Interfaces

RS232	115 200 Baud Rate
USB	2.0
Ethernet	UDP or TCP/IP

Conformity

Europe	CE Marking
Postal	EN 300 330
EMC	EN 301 489
Low Voltage	EN 60950
Human Exposure	EN 50364
USA	Part 15 of FCC rules
FCC ID	2ACK5-SLRM1000-16

Temperature Range

Environment	Indoor use
Operation Temperature	0°C to 55°C
Storage Temperature	-25°C to 85°C
Relative Humidity	10% to 80% (non-condensating)

Operating Modes

Host Mode	According Software Protocol
Buffered Read Mode	Internal Storage of Serial Data in FIFO Buffer
Polling Mode	Of Defined Transponder Types