SLG FRE 9010 & FRE 9020

Powerful passive 868 MHz UHF Long Range Reader

Features:

- Reading ranges up to10 m
- Power over Ethernet (PoE)
  → only version FRE 9010
- 4 Antenna Port Indicators
- USB-Host for WLAN dongle or memory stick
- ACC with Linux operating system
- 4 different reader modes
- RSSI Data Readout for localization of transponders
  → only version FRE 9010

Product description:

The new and powerful 868 MHz UHF Long Range Readers FRE 9010 & FRE 9020 are licensed according to ETSI and FCC and are characterized by the following features:

- New Low Noise Transmitter Architecture
- High receiver sensitivity cares for an enlarged and at the same time homogeneous tag detection range
- Powerful tag response decoding engine decodes FM0- and Miller coded return link signals for e.g. Dense Reader Mode or ISO 18000-6-B
- Reader protection against fault conditions like antenna shortcut, antenna mismatching and electrostatic discharge
- Robust aluminum die case housing for usage in rough environments
- Increase of enclosure rating due top optional available connector sealing cap for the connector block
- Quick installation due to easy access to interfaces and antenna ports
- Antenna Port Indication: Display of active antennas (green), read events (blue) and possible antenna mismatching (red) via 4 separate LED's
- Various configuration options for software and hardware
- ACC (Application Connectivity Controller) with Linux operation system for installation of individual application software directly on the reader platform
- 5 hardware interface ports: Ethernet (only version FRE 9010), RS232, RS485, USB and an USB-Host for WLAN dongle or memory stick
- Readout of RSSI data for localization of identified transponders

Technical specifications:		
Version	**FRE 9010 with PoE**	**FRE 9020**
Housing & color:	Aluminum, powder coated; light grey/aluminum	
Dimensions (W x H x D):	260 mm x 157 mm x 65 mm	
Weight:	2.000 g	
Enclosure rating:	IP 53 (IP 64 with connector sealing cap, optional available)	
Power supply:	24 V DC +/- 15% or Power over Ethernet (PoE)	24 V DC +/- 15%
Power consumption:	max. 2 A	
Operating frequency:	860 … 960 MHz	
Transmitting power:	max. 4 W	
Antenna connection:	4 x SMA connector (50 Ohm); reader internally multiplexer	
RF Diagnostics:	RF Channel monitoring, Antenna SWR control, internal overheating control	
Outputs:	- 2 x Optocoupler: 24 V DC / 30mA - 3 Relays: 24 V DC / 1 A	
Inputs:	- 5 x Optocoupler: 24 V DC / 20mA	
Interfaces:	*Ethernet*, RS232, RS485, USB, USB-Host for WLAN dongle or memory stick	RS232, RS485, USB, USB-Host for WLAN dongle or memory stick
Reader modes:	FEIG ISO HOST, Buffered Read Mode, Scan Mode, Notification Mode	
Betriebssystem:	Linux (64 MB RAM, 256 MB FLASH)	
Supported transponders:	EPC Gen2; opt. EM 4222 and ISO18000-6-B/-C	
Reading range:	10 m	8 m
Indicators:	8 LED's for diagnosis of reader operation status and antenna status	
Others:	*RSSI Data Readout*, Anticollision, Real time clock	Anticollision, Real time clock
Temperature range:	- Operation: -25°C up to + 55°C - Storage: -25°C up to+ 85°C	
Relative humidity:	5 - 95% (non-condensing)	
Standard conformity:		
- Radio license:	- Europe: EN 302208 - USA: FCC 47 CFR Part 15 - Canada: IC RSS-GEN, RSS-210	
- EMC:	- EN 301 489	
- Safety:	- Low voltage: EN 60950 - Human Exposure: EN 50364	
- Vibration:	- EN 60068-2-6 - 10 Hz bis 150 Hz: 0,075 mm / 1g	
- Shock resistance:	- EN 60068-2-27 - Acceleration: 30g	
Order No.:	**E4001.000244 with PoE**	**E4001.000245**