

SLG FRE 9200-E/-USB

Passive UHF Multi Protocol Mid Range Reader



Product description:

- The FRE 9200-E/-USB reader identifies UHF transponders within a frequency range from 865 to 928 MHz and so it can be used in Europe and in the USA.
- The reader is suitable for application fields like retail, industry, Supply Chain, logistics etc.
- It is a very flexible and cost effective reader which is aimed for UHF applications, operating with a medium reading range (1 – 2,5 meters) and a reduced RF transmitting power (max. 0.3 W).
- FRE 9200 is available as a LAN variant (FRE 9200-E) and as an USB variant (FRE 9200-USB). Both variants also offer a RS232 interface, the USB variant a RS485, additionally. So the connectivity to several host systems is possible.

RF key features:

- A powerful RF interface to work with maximum speed in European or US DRM (Dense Reader Mode)
- RF front end with blocking features supports adjacent channel operation of RF Readers.
- Reader protection against various fault conditions, such as antenna shortcut and electrostatic discharge.
- Reader is available in different versions to fulfill the different national radio rules of UHF.

Features:

- Wide variety of ETSI- and FCC certified antenna configurations with reading ranges depending on the RF transmitting power between 1 meter (0,1 W) and 2,5 meters (0,3 W)
- Multi-tag Reader (EPC Gen2, opt. ISO 18000-6-B/-C) with various interface options
- High speed anti-collision function identifies large quantity of tags. Buffered Read Mode and Notification channel function provides data filtering and buffering.
- Connection of one or two external antennas

<u>Technical specification</u>		
Version	FRE 9200-E	FRE 9200-USB
Housing:	Die-case aluminum, powder-coated, lockable hinged cover	
Dimensions (W x H x D):	200 mm x 110 mm x 60 mm	
Weight:	1.200 g	
Protection class:	IP 54	
Power supply:	12 – 24 V DC +/- 15%	
Power consumption:	max. 15 VA	
Operating frequency:	- EU version: 865,6 – 867,6 MHz (200 kHz steps) - FCC version: 902 – 928 MHz (500 kHz steps)	
Transmitting power:	0,1 W, 0,2 W or 0,3 W +/- 1dB	
Data rates:	- Dense Reader Mode EU – 50kbps / 80kbps - Dense Reader Mode US – 50kbps / 64kbps	
Antenna connection:	2 x SMA-connector (50 Ohm); Multiplexer integrated	
RF Diagnostics:	Antenna SWR control, Internal overheating control	
Outputs:	- 2 x Optocoupler: 24 V DC / 30mA - 1 x Relay (1x NO/NC): 24 V DC / 2 A	
Inputs:	2 x Optocoupler: max. 24 V DC / 20mA	
Interfaces:	RS232 LAN (802.3)	RS232 & RS485 USB
Protocol-Modes:	FEIG ISO HOST Buffered Read Mode Scan Mode Notification Mode	FEIG ISO HOST Buffered Read Mode Scan Mode
Supported transponders	EPC Gen2; opt. ISO18000 6 B/ C	
Indicators:	4 LED (for diagnosis of the operating status)	
Temperature range:	- Operation: -20°C up to + 55°C - Storage: -25°C up to+ 85°C	
Relative humidity:	5 - 80% (non condensing)	
Standard conformity:		
- Radio license:	- Europe: EN 302208, EN 300220 - USA: FCC 47 CFR Part 15	
- EMC:	- EN 301 489	
- Safety:	- EN 60950	
- Vibration:	- EN 60068-2-96 - 10 Hz to 150 Hz: 0,075 mm / 1g	
- Shock resistance:	- EN 60068-2-27 - Acceleration: 30g	
Order number:	E4002.000081	E4002.000082