Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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OBID

i-*scan*® *UHF*

**Long Range Reader
ID ISC.LRU1000**

Multi-protocol Long Range Reader for identi-
fication of UHF transponders (865-928 MHz)
in the fields of retail, industry, logistics etc.

Features:

- Multi-protocol technology (ISO 18000-6-A/B,
  EPC UHF class 1, EPC UHF Gen 2)

- Connection of up to 4 external antennas

- BRM-function: Data filtering and -buffering

- Solid housing (protection class IP 54)

- Interfaces: RS232, RS485,Ethernet, WLAN

- Variants for use in Europe and North America

- Problemless Firmware-updates

FEIG ELECTRONIC

**OBID**® -- **RFID by FEIG ELECTRONIC**

Short description

The UHF-Long Range Reader ID ISC.LRU1000 identifies UHF transponders within a frequency range from 865 to 928 MHz and so can be used in Europe and in North America.

Licensed according to EN and FCC, in each area maximum allowed transmitting power can be realized. Due to the high maximum reading range of up to 5m with a single antenna and up to 10m with a multi-antenna application, the reader is suitable especially for Asset Management and logistical applications -- especially there, simultaneous identification of several transponders and very high reading ranges are necessary !

The multi-protocol structure of the reader (currently ISO 18000-6-A and -B as well as several EPC tags) enables already now the use of several differnt transponders and reduces in future the integration of new tags and standards, because always the same protocol structure (ISO Host) will be used.

Connection of up to 4 external antennas enables realization of multi-antenna-applications (integrated Multiplexer), the several interfaces (RS232, RS485, Ethernet, WLAN) guarantee highest flexibility to connect the reader with your individual backup-system.

The solid housing (IP 54) allows the readers use even in harsh industrial surroundings; the readers ISO Host Protocol is identical with the protocol of the readers within the 13.56 MHz OBID i-*scan*®*HF* reader family -- so HF- and UHF-readers can be used within the same application without additional efforts !
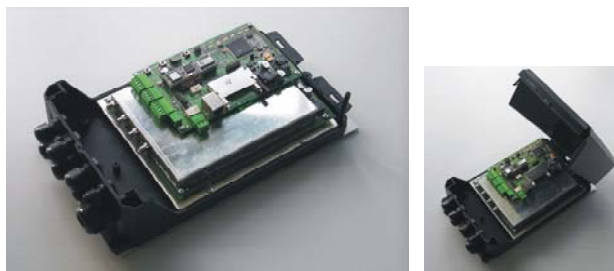
Technical Data

Housing	Plastic with heatsink
Dimensions (WxLxH)	180 x 320 x 110 mm
Protection class	IP 54
Power supply	12-24 V DC
Power consumption	max. 30 VA
Operating frequency	869,525 MHz ; 865,6-867,6 MHz (200 kHz-steps); 902-928 MHz (500 kHz-steps)
Transmitting power	100 mW - 4 W (100 mW-steps) 4 Watt EIRP 2 Watt ERP (0,5 Watt ERP)
Modulation	20% - 40% and 100% (scalable via Software)
Receiver	Data rates 40 - 320 kbps
Antenna connectors	4 x SMA connector (50 Ohm)
Outputs - 1 Optocoupler - 1 Differential output - 1 Relay (1x NO/NC)	24 V DC / 30 mA Reader synchronization 24 V DC / 2 A
Inputs - 1 Optocoupler - 1 Differential input	max. 24 V DC / 20 mA Reader synchronization
Interfaces	RS232 and RS485 Ethernet (TCP/IP) Compact Flash-2 (WLAN)
Protocol modes	FEIG ISO HOST; BRM (data filtering and -buffering)
Processable transponders	ISO 18000-6-A and -B (U-Code), EPC class 1 and Gen 2 Optional: EPC class 0
Indicators	5 LED´s
Temperature range - Operation - Storage	-25°C up to 55°C **(-25°C up to 70°C)** -25°C up to 85°C

Standard conformity

Radio license - Europe - USA	EN 300 220 FCC 47 CFR Part 15
EMI	EN 301 489
Safety	EN 60950
Vibration	EN 60068-2-6 10 Hz up to 150 Hz: 0,075 mm / 1g
Shock	EN 60068-2-27; Acceleration: 30g