

RRUI 4 RFID UHF Reader System

865-868 MHz, 4-Way Antenna Interface

Order no. 520 10009

KATHREIN
Antennen · Electronic
Preliminary Issue

The Kathrein RRUI Series is a new GEN2 modular designed reader system, which allows the user to select a wide range of different function blocks, to obtain an optimised solution for today's RFID challenges.

The RRUI Series is targeted to the next generation of RFID UHF applications to solve problems in the supply chain and in the manufacturing area. Key segments are the Automotive Industry, Automation Systems, Telecommunications and Logistics.

The RRUI Series is based on the Intel R1000 RFID UHF Chipset to provide highest performance with essential reduction of system costs.



Intel® RFID
Technology

General Specifications:	ECE-Version	US-Version
Frequency range	865-868 MHz	902-928 MHz
Output power	+ 33 dBm	+ 30 dBm conducted (FCC)
Protocols	EPC Class1 GEN2/ISO 18000-6C	
Impedance	50 ohms	
LBT Sensitivity	102 dBm	
Antenna interface	4 Port TX/RX interface with SMA connectors	
Communication interface	Base Version: Ethernet, USB, RS485	
Operating system	Kathrein Firmware @ ARM 9 Proc.	
Power supply	+ 24 V DC ±10%	
Temperature range	-20°C to +60°C	
Storage temperature range	-20°C to +80°C	
Dimensions	170 x 100 x 85 mm	
Weight	0.85 kg	
Environmental Protection	IP 65 and IP 54 version	
Conform to:	EN 300 220-1, EN 302 208-1, EN 301 489-3, CE, ETSI,	FCC

Technical Features:

- System compliant to EPCglobal Gen2/ISO 18000-6C standards
- Software-defined radio architecture based on Intel R1000
- Combined TX/RX antenna ports
- Support LBT Listen before talk (ETSI EN 302 208-1)
- Dense Reader Mode (DRM)
- Modulation modes: DSB, SSB, PR-ASK
- Output power range option from 0.1W up to 2.0 W ERP (4.0 W US)
- Ready for Kathrein RFID Antenna Interface **KRAI** ©
- Interface modules: Ethernet, USB, RS485
- IP 65 ruggedized industrial design
- Temp. range -20°C to + 60°C
- CE and ETSI compliant
- FCC approval for US version

936.3276 Subject to change