

KATHREIN

RRU-4500: RAIN RFID Reader Unit, 865-868MHz, 4 port, KRAI, PoE, Linux

The Kathrein RRU 4500 reader is the next generation of RAIN RFID readers and the leading IoT device for all professional AutoID solutions. It is the first choice for professional IoT solutions, such as industrial automation and vehicle identification in ruggedised environments.

Its best-in-class 33-dBm UHF RF unit, optional connectivity modules, e.g. PoE+, Wi-Fi, 3G mobile interface and the powerful scalable processing unit change the way identification works.



Based on the latest RFID standards, such as EPC Gen2v2/ISO 18000-63, Kathrein RRU 4500 reader supports all market leading transponder chip features for security, authentication and encoding.

Key features of the Kathrein RRU-4500 RAIN RFID reader

- ruggedised high-end RAIN RFID reader
- powerful IoT gateway
- enhanced RF design
- integrated high secure memory module
- 4 antenna ports
- +33 dBm port power
- @KRAI antenna support
- GPIO
- PoE+
- basic computing module
- embedded dual-core 800 MHz PC
- open source Linux OS
- advanced LED visualisation
- IP67 outdoor use
- applications for logistics, industrial automation, vehicle identification, Smart City applications



Technical Description

Functionality & Operation

Indicators	12 programmable LED
Communication interface	GPIO, LLRP, Ethernet, KRAI ©, PROFINET
Operating system	Linux
Memory	8GB Flash eMMC
Program memory	1GB
CPU Type	ARMv7-A based, 2 cores @ 800 MHz
RFID transponder protocols	EPC Gen 2v2, ISO 18000-63, UCODE DNA
Frequency	UHF: 865 - 868 MHz (EU)
Maximal transmit power	33dBm
Antennas, Antenna inputs	4 mono-static ports
Connectors	TNC Male, GPIO

Electrical

DC resistance	500hm
Power Source	10 VDC ~ 30 VDC, PoE+ (Power Over Ethernet spec. 802.3at)

Mechanical

Dimensions	Width: 300mm, Height: 300mm Length: 71mm
Weight	3.5kg
Color	light grey

Environment

Operating temperature	-20 to 55°C
Storage temperature	-40 to 85°C
Ingress protection	IP67

Others

Certifications	EN 302208-2, EN 301 489-1/3, EN 50364, EN 60529, EN 62368-1, CE, RoHS
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