KATHREIN

ARU 3500: RAIN RFID Antenna Reader Unit, 865-868MHz, int. + 3 ext. Ant., PoE+, Linux

The Kathrein ARU3500 antenna reader is the RAIN RFID reader with an integrated 65° wide-range antenna. 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, optimal connectivity via PoE+ and a second Ethernet port, as well as the powerful, scalable processing unit that changes the way identification works.

Based on the latest RFID standards, such as EPC Gen2v2/ISO 18000-63, Kathrein ARU3500 antenna reader supports all market-leading transponder chip features for security, authentication and encoding.

Main features of the Kathrein ARU-3500 antenna reader

- ruggedised high-end RAIN RFID reader with an integrated antenna
- powerful IoT gateway
- enhanced RF design
- integrated high secure memory module
- 3 antenna ports
- +33 dBm port power
- GPIO
- PoE+
- basic computing module
- embedded dual-core 800 MHz PC
- open source Linux OS
- advanced LED visualisation
- IP67 outdoor use
- type approval for Europe, US and RoW

YOUTUBE='GAvCLgmz4Qk'

Technical Description

Functionality & Operation

Connectors	GPIO, TNC Male
Polarization	circular
Reading/writing distance	10m
Indicators	12 programmable LED
Communication interface	GPIO, LLRP, Ethernet, KRAI ©, PROFINET
Memory	4GB Flash eMMC
Program memory	128MB DRAM
CPU Type	ARMv7-A based, 2 cores @ 800 MHz
Operating system	Linux
RFID transponder protocols	EPC Gen 2v2, ISO 18000-63
Frequency	UHF: 865 - 868 MHz (EU)
Maximal transmit power	33dBm
Antennas, Antenna inputs	3 mono-static ports, integrated RFID antenna, cirkularly

Electrical

Power Source	10 VDC ~ 30 VDC, PoE+ (Power Over Ethernet spec. 802.3at)
DC resistance	50Ohm
Gain	8.5dBi
Beam width	65°

Mechanical

Dimensions	Width: 300mm, Height: 300mm Length: 71mm
Weight	4.26kg
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 62368-1, EN 60529, EU RoHS