KF500
RFID Tracking System

Product overview

KF500 is an UHF RFID tag reader which has a build-in RFID antenna. The device reads the tags automatically when they are inside its read range (up to 2.5m), and sends the data to StoCloud webapp, which allows full management of the obtained information.

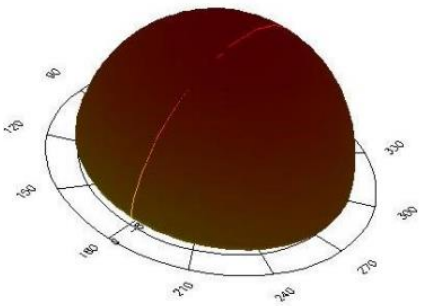
KF500 includes Linux OS. This feature makes possible to set-up the reader just with plugging it to the electrical grid, there is no need of a long and expensive set-up process. Moreover, it can also activate outputs to warn other systems that an specific item was detected or that an specific event happened.

Its ergonomic and light weight design makes it possible to mount it virtually everywhere. It also includes and optional wall bracket to mount it easily.

KF500 works with any hard and soft Gen2 RFID UHF tags.

Radiation pattern

KF500 has a circular polarization and a radiation pattern characterized by a wide beam in all directions in one hemisphere.



Benefits:

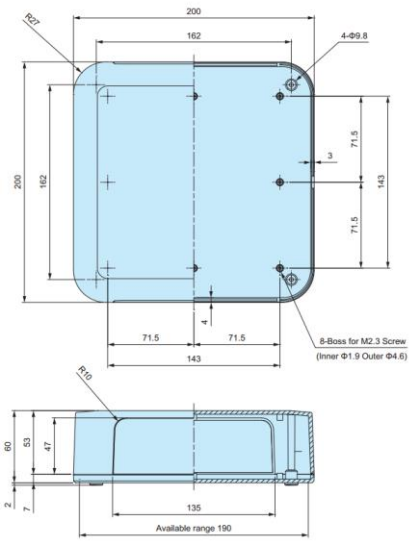
- Combination of loss-prevention and product identification in one system
- Very quick detection
- Continuous detection field
- Plug and play
- No need of

Applications:

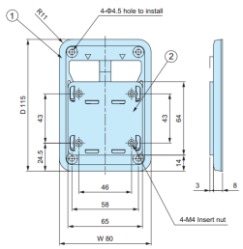
- Product tracking at backdoors, entrances, corridors, etc.
- Asset tracking
- People tracking
- Replenishment systems
- Industrial control
- Supply chain management

Mechanical

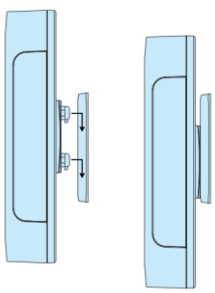
Enclosure



Wall Mount Bracket



Installation



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Specifications

Operating Frequency	FCC (NA, SA) 902 MHz - 928 MHz ETSI (EU, IN) 865.6 MHz - 867.6 MHz MIC (KR) 910 MHz - 914 MHz SRRC-MII (P.R.China) 920 MHz - 925 MHz Brazil: 902-907,5 MHz and 915-928 MHz (by using channel selection) ACMA (AU, NZ) 920 MHz – 926 MHz Open region
Detection Height	Up to 3m (Use above heights with caution. Read distance depends highly on tag model and products being used)
Radiation pattern	Wide beam in both directions in one hemisphere
Beam width	100° / 100°
Polarization	Circular
Alarm Audio	Buzzer
Man/Machine Interfaces	Status LED (Green) Reading warning LED (Blue)
Radiation angle	Fan shape 20° (narrow direction) / 90° (broad direction) -15 dB side lobes
Alarm function Preset	System gives audio and light alarm by detection of any of the EAS supported modes
Power supply	Power over Ethernet External power supply
Power Consumption	Idle consumption < 3 W Max consumption (@30dBm) < 9 W
Reader Power	Programmable from 0 dBm to 30 dBm in 0.5 dBm steps (Maximum power may have to be reduced to meet regulatory limits)
Output power	5 V (DC) @ 200 mA non-isolated power supply to feed external devices and circuitry
Interface	Ethernet
Transponder Protocol Standard	EPC Class1 Gen2
Temperature range	-20°C to +55°C
Dimensions	200 mm x 200 mm x 60 mm 7.9 inches x 7.9 inches x 2.4 inches
Weight	600 g
Material Housing	ABS
Color	Off white
Human exposure	EN 50364
EMC	EN 301 489, EN 300 220
Air Protocol Interface	EPC global UHF Class 1 Gen 2 / ISO 18000-6C

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