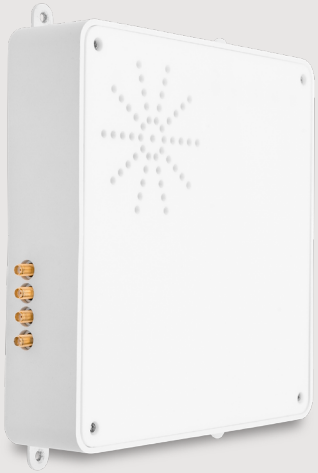
keonn Retail RFID Systems

AdvanGuard ™

RFID alarm unit

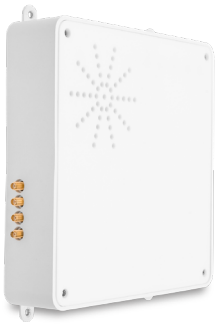


Keonn Technologies S.L.

Tel: +34 931 814 477
info@keonn.com

Barcelona
London
Los Angeles

AdvanGuard ™
RFID alarm unit



Video

Benefits:

- Theft reduction
- Combination of loss prevention and product identification in one system
- Provides data to detect which products suffer more theft attempts
- Statistics of alarms
- Connects easily to various RFID antennas
- Plug and play installation

Applications:

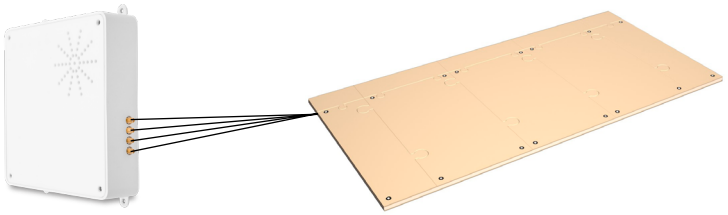
- Loss prevention at retail stores
- Loss prevention at libraries
- Loss prevention at warehouses
- Product tracking at backdoors, entrances, corridors, etc.

Product overview

AdvanGuard is an **RFID UHF alarm unit** for loss prevention at retail stores, libraries and other spaces.

It comprises an embedded reader and alarm combining loss prevention and RFID functions in one system. It **connects easily to various RFID antennas**.

It is ideal for combining it with **AdvanMat RFID floor mat**, for creating a complete loss prevention system.



AdvanGuard AdvanMat

The **process** is the following:

1. AdvanGuard is connected to chosen RFID antennas
2. AdvanGuard detects the tagged items under the coverage of the antennas
3. AdvanGuard verifies if those items have been paid or fulfill a condition
4. AdvanGuard triggers an acoustic and/or visual alarm if any of the items has not been paid or does not fulfill a condition

Product features

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

AdvanGuard can use **four configurations** for verifying if a tagged item has been paid:

- Checks if the EPC code includes a pre-defined pattern that signals that the product has or not been paid.
- Checks the EAS bit of NXP chips.
- Checks against the POS database if the product has been paid.
- Checks bulk theft: trigger an alarm if a certain number of tags belonging to the same category are read in a certain time period (e.g. a few seconds).

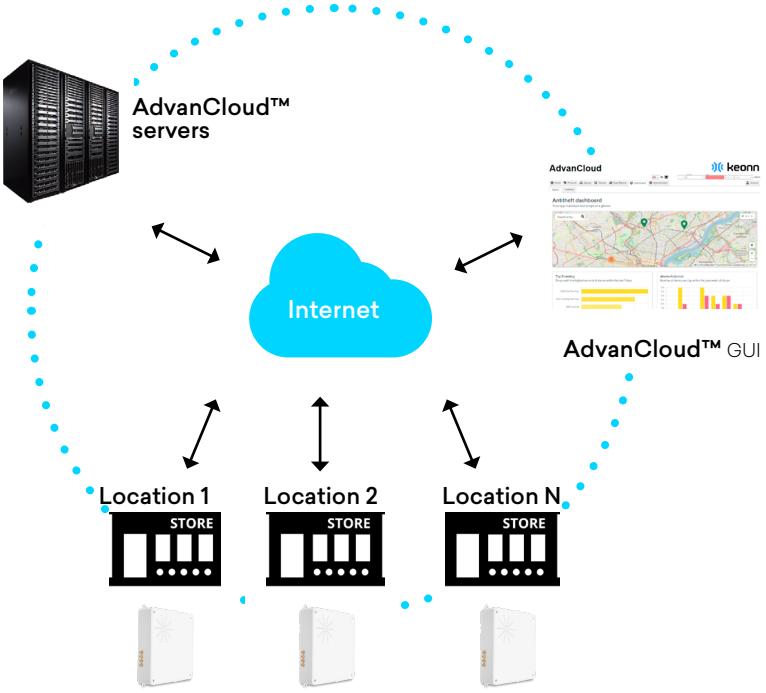
AdvanGuard includes **configurable software filters** for minimizing false alarms

AdvanGuard ™
RFID alarm unit



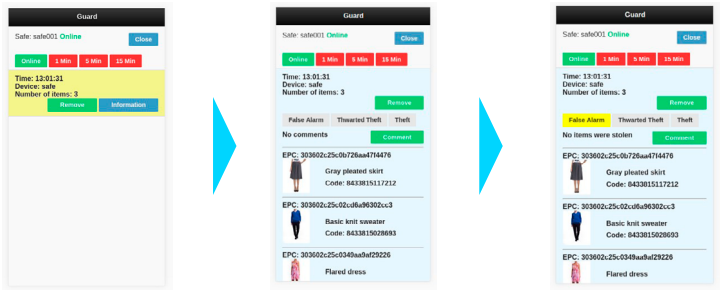
Connection to AdvanCloud

AdvanGate can be optionally connected to AdvanCloud cloud-based software platform.



The products that trigger an alarm can be shown on a **smartphone** managed by store staff or security staff, in order to:

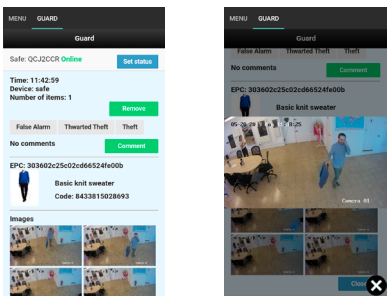
- Thwart theft attempts
- Register the event: false alarm, thwarted theft, theft



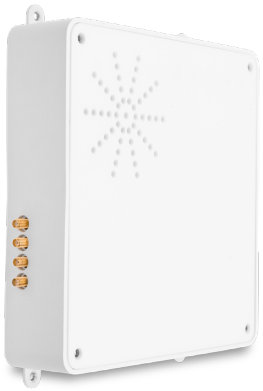
This information can then be analyzed for **business intelligence** purposes:

- Theft attempts by day and time of day
- Products that suffer more theft attempts
- Stores with more theft activity
- ...

Optionally, AdvanGuard can be connected to a camera and send images of the person passing by when the alarm is triggered, to any smartphone.

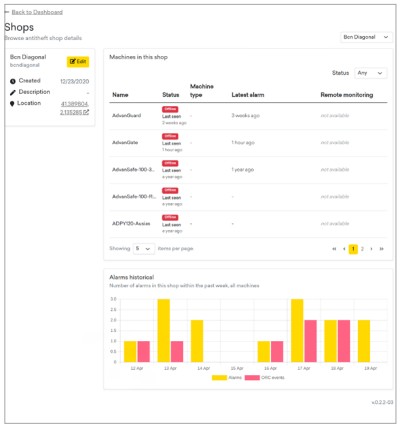


AdvanGuard ™
RFID alarm unit

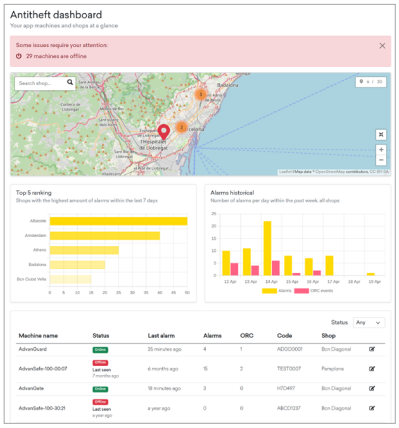


Anti-theft dashboard

If AdvanGuard is connected to AdvanCloud, the status of AdvanGuard as well as the alarms triggered can be monitored through the AdvanCloud loss-prevention dashboard.

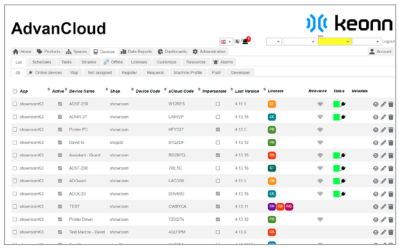


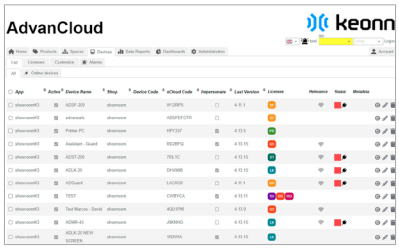
The alarms historical by shops are shown on the dashboard with details of machine status.



The dashboard will show your active systems on the map, providing alarm information.

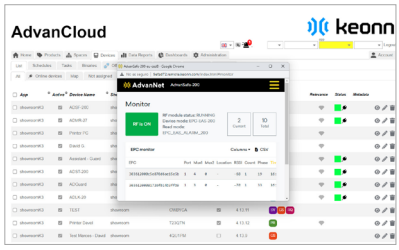
Device remote management





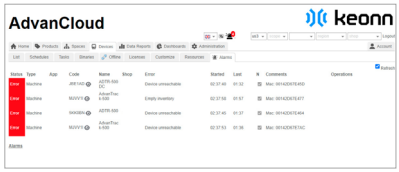
List of devices (online/offline)

Check if devices connected to AdvanCloud are online (green) or offline (red).



Remote Acces to AdvanNet (Keonn RFID readers)

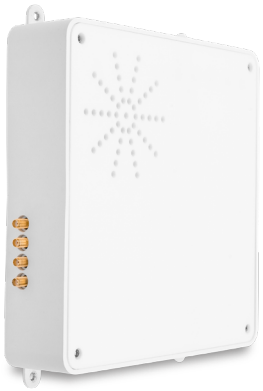
Acces remotely to AdvanNet from AdvanCloud for managing Keonn RFID readers.



Check device health status

Monitor the active device's health with detailed diagnostics of errors.

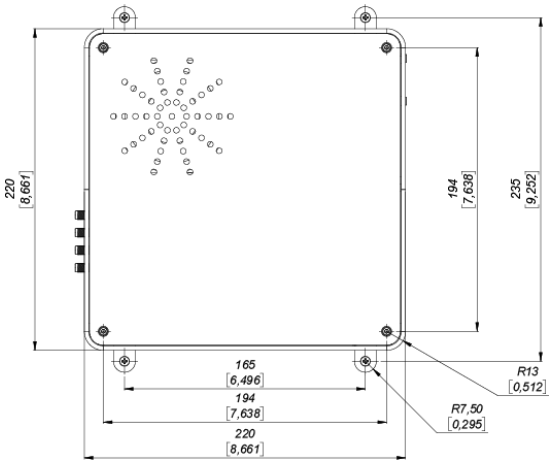
AdvanGuard ™
RFID alarm unit

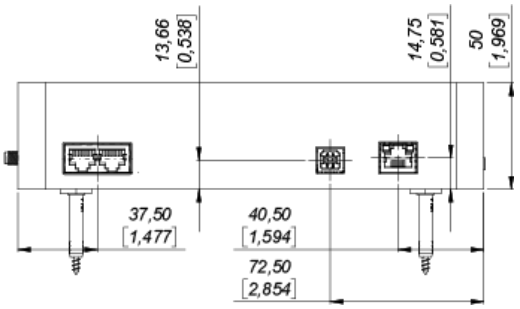


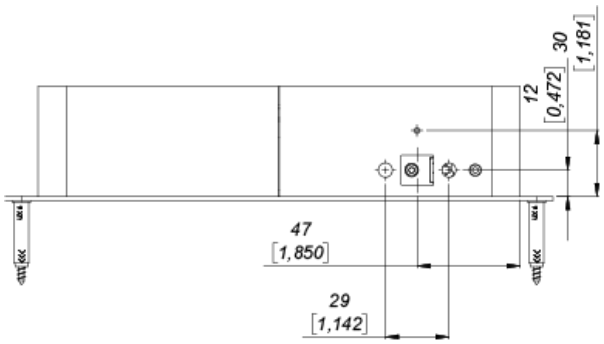
Radiofrequency specifications

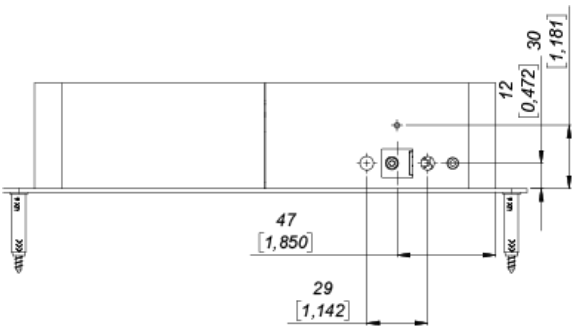
Operating Frequency	865 to 868 MHz, 902 to 928 MHz
Alarm Lights	4 Light Emitting Diodes (LEDs)
Alarm Audio	Loudspeaker (2 W sound output)
RF connections	Four 50 Ohm SMA connectors for mono-static antennas
Alarm function Preset	System gives audio and light alarm by detection of any of the EAS supported modes
Power supply	Through Ethernet connection. PoE Type I and PoE Type II
Energy Consumption	Max consumption (31,5 dBm) < 15 W Idle consumption < 5 W
Reader Power	max. 31,5 dBm (may be limited to conform to some regulations)
Anti-collision	Yes
Interface	Ethernet
Transponder Protocol Standard	EPC Class1 Gen2
Conformity	EN 50364, EN 301 489, EN 302 208 (LBT), EN 300 220
Temperature range	-20°C to +55°C
Dimensions	220 mm x 220 mm x 50 mm (8.7 in x 8.7 in x 2.0 in)
Dimensions with wall mounting piece	220 mm x 270 mm x 53 mm (8.7 in x 10.6 in x 2.1 in)
Material Housing	Aluminum and methacrylate
Weight	1.53 kg (3.4 lb)
Weight with wall mounting piece	1.67 kg (3.7 lb)
Color	White
Human exposure	EN 50364
EMC	EN 301 489, EN 300 220
Air Interface (EU)	ECN 302 208 v1.2 (DRM)

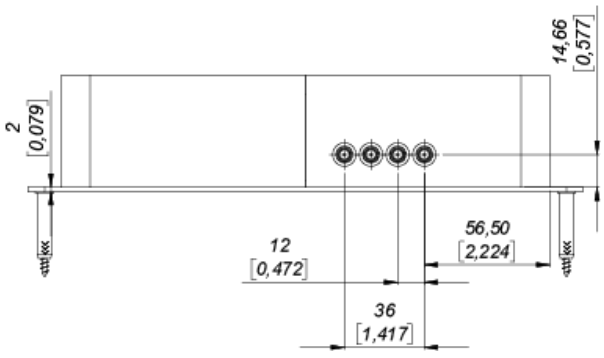
Mechanical specifications

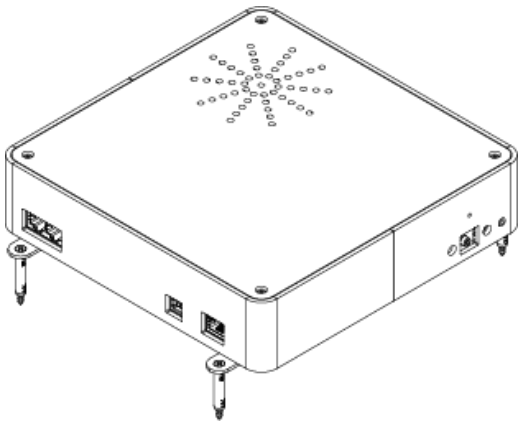












Units in millimeters and [inches]

Product codes for ordering

ADGR	-	mmm	
			Model
		100	Model number

Examples:

ADGR-100:

- AdvanGuard
- Model **100**

Copyright © Keonn Technologies S.L.
All rights reserved.

Information in this publication supersedes all earlier versions. Specifications subject to change without notice.

Keonn Technologies S.L.

Tel: +34 931 814 477
info@keonn.com

Barcelona
London
Los Angeles