

Product overview

AdvanPanel is a smart panel based on RFID UHF, that detects in real-time the tagged Kanban cards placed on such panel, with a high read-rate (typically 100%).

In addition, AdvanPanel is able to avoid detecting other Kanban cards that are not placed on the panel, even if these cards are at a close physical distance from the panel.

A very common application of AdvanPanel is **inventory management of medical products in hospitals**. Medical products are placed on boxes or drawers that have a tagged Kanban card attached. When the number of items in a storage drawer falls below a specific threshold, the user removes the tagged Kanban card from the drawer, and places it on AdvanPanel. AdvanPanel detects in real-time such Kanban cards, and the resulting information is used to reorder or restock medical products.



Another common application of AdvanPanel is **restocking management** at those factories or industrial companies that use Kanban cards.



An international patent application on AdvanPanel is currently pending.

Specifications

Operating Frequency EU Version	865-868 MHz (ETSI EN 302 208)
Operating Frequency US Version	902 - 928 MHz (FCC part 15)
Read rate on tagged cards placed on the panel	Typically 100.0%
Avoids detection of tags placed away from the panel	Yes
Minimum distance between the panel and tags that must not be detected	About 50 cm
Scan time	4 seconds
Transmitted power	max. 30 dBm
Power supply	Power over Ethernet
Interface	Ethernet
Transponder Protocol Standard	ISO 18000-6C EPC Class1 Gen2
Customer protection	Antennas are not visible, and not accessible by users
Approximate dimensions for 84 cards	580 mm x 400 mm x 183 mm (22.8 in x 15.7 in x 7.2 in)
Weight	5.9 kg
API	REST services



Benefits:

- Real-time inventory information
- Reduction of out-of-stocks
- Cost reduction in staff (manual inventories and visual observation of Kanban cards are avoided)
- Low investment
- Low tag costs (items are not tagged, only Kanban cards, and they are reused)
- Non visible antennas
- Easy to install

Applications:

- Inventory management at hospitals and healthcare institutions
- Industries and factories that use a Kanban system for restocking management
- Small warehouses
- Inventory management in general

Keonn Technologies S.L.
Pere IV, 78-84, planta 6, 3a
08005 Barcelona, Spain

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

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