



keonn Retail RFID
Systems

AdvanDisplay™ RFID smart display system





Benefits:

- Increase in sales
- Increase in product availability
- Reduction of stock-outs
- Real-time information of sell-out per store and per display fixture
- Monitoring of effective restocking at each display fixture
- Better synchronization of media campaigns with available products in stores
- Increase in customer satisfaction
- Shrinkage reduction

Applications:

- Consumer goods at retail stores
- Promotional campaigns of consumer goods at stores

Product overview

AdvanDisplay is a **smart shelf system** based on UHF RFID, addressed to merchandise vendors who want to monitor remotely the sales and restocking of products at retail stores in real-time.

AdvanDisplay includes:

- Antennas
- Multiplexers
- Readers
- RF cables
- Control cables for multiplexers
- WiFi or 3G communication module
- Software drivers, including a tag location algorithm

These components are attached to **display fixtures** designed by merchandise vendors for promotion purposes. As a result, merchandise vendors obtain **full tracking** in real-time of the situation of their products.

AdvanDisplay includes a **wireless communication capabilities** (WiFi or 3G), to send the inventory information directly to the vendor headquarters. It is not necessary, therefore, to use the network of the retailer.

AdvanDisplay hardware can be easily assembled to a fixture by non-skilled operators.

AdvanDisplay can be **powered by batteries**. The system is usually in sleeping mode, consuming minimum energy. At the configured time, the system wakes up, obtains the inventory, sends the inventory data through wireless networks and goes to sleeping mode again. In this way, the batteries may last for months before needing to recharge.

Technical specifications



Operating Frequency EU Version	865-868 MHz (ETSI EN 302 208)
Operating Frequency US Version	902 - 928 MHz (FCC part 15)
Materials	Can be used on display and cardboard fixtures, of any color and size Can be used on shelving structures as well as panels with hangers, brochettes, etc.
Read rate	Typically above 99,5%
Location resolution	Typically ±40 cm (±15 inches)
Scan time	Adjustable, depending on the number of antennas and number of readers
Number of antennas	Approximately one every 25 cm x 25 cm (10 inches x 10 inches)
Number of antennas that can be connected to a single reader	Up to 1.024
Reader transmitted power	max. 315 dBi
Communications	Ethernet, WiFi , 3G
Transponder Protocol Standard	ISO 18000-6C EPC Class1 Gen2
Customer protection	Antennas are not visible, and not accessible by end users
Drivers	Java



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