



**AGX AS 21
RFID loss prevention
and anti theft system
All in one**

Product Description

Product overview

AGX AS21 is a loss prevention system based on RFID UHF. It includes an antenna with an embedded reader, controller and alarm combining EAS and RFID functions in one system. AGX AS21 detects the tagged items that pass below the antenna, verify if those items have been paid, and sounds an alarm if any item has not been paid.

AGX AS21 can use three configurations for verifying if a tagged item has been paid:

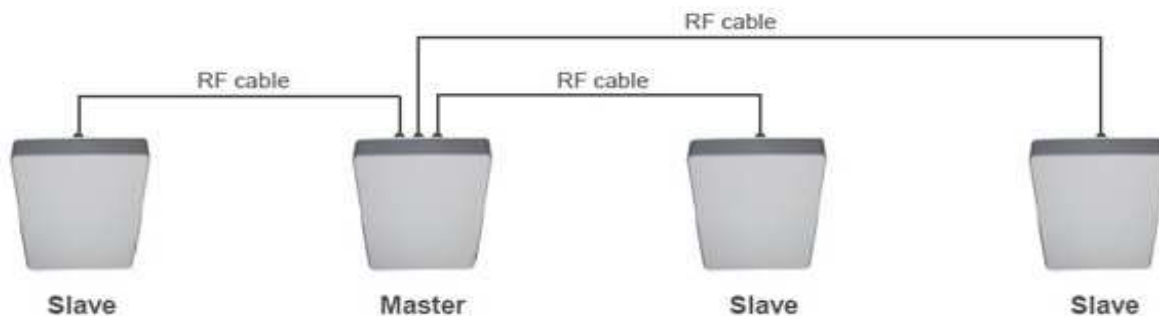
- Verifies the EAS bit of NXP chips
- Verifies if the EPC code includes a pre-defined pattern that signals that the product has or not been paid
- Verifies against the POS database if the product has been paid. This requires an external computer

AGX AS21 comprises a master unit and several slave units:

- The master unit has an integrated reader, a controller, an alarm, a visual alarm indicator and one directive antenna.
- Each slave unit comprises one directive antenna and a visual alarm indicator.

As shown in the following illustration, up to 3 slave units can be connected to one master unit. This reduces costs for stores with wide entrance

AGX AS21 with 4 Antennas



AGX AS21 works with multiple reusable UHF hard tags, sew in tags or hang tags using EPC Gen2 chips. By using the AGX AS21 system it is no longer necessary to install two technologies for using EAS and RFID functions in one single shop.

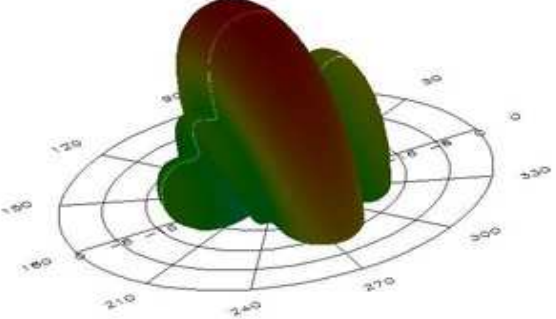
Article no:	AGX AS21
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Typical Applications

- Loss prevention at retail stores
- Loss prevention at warehouses
- Product tracking at backdoors, entrances, corridors, etc.
- Anti theft at any location

Contact:

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Technical Specifications		AGX AS21
Benefits	Radio pattern	
<ul style="list-style-type: none"> • Combination of EAS and RFID in one system, reducing labeling costs • Improved store aesthetics, by having an open entrance area in the shop • Improved customer experience, since tags are very thin and can be embedded in labels (for apparel) • Shrinkage reduction • Provides data to detect which products suffer more theft attempts • Statistics of EAS alarms • Plug and play installation 	<p>To minimize the detection of products inside the store, AGX AS21 has a radiation diagram wide in one direction and narrow in the other (perpendicular) direction</p> 	

Technical Data AGX AS21

Frequency	865-868 MHz / 902- 928 MHz
Detection Height	2 - 3,5 m (recommended) Maximum: 4 m
Transponder Protocol Standard	EPC Class1 Gen2
Radiation pattern	Fan beam
Beam width	20° / 90°
Polarization	Circular
Alarm Light	Light Emitting Diode (LED)
Alarm Audio	Signal Buzzer
Alarm function Preset	System gives audio and light alarm by detection of any of the EAS supported modes
Power supply	Power over Ethernet Optional: External power supply
Consumption	6 W max., 1,5 W stand by, 0,5 W sleep modus, <5µA power down
RF Power	max. 31,5 dBm (may be limited according to local regulations)
Radiated power	2 W ERP, 3.2 W EIRP
Communication interface	Ethernet with POE
Conformity	EN 50364, EN 301 489, EN 302 208 (LBT), EN 300 220
Temperature range	-20°C to +55°C
Dimensions	880 mm x 220 mm x 56 mm / 34.6 inches x 8.7 inches x 2.2 inches
Weight	Master unit: 4.300 g / Slave unit: 3.900 g
Material Housing	Aluminum and methacrylate
Color	Off white

Article no:	Master Unit incl. Reader and 1 antenna	AGX AS21 BS
	Additional antenna (up to 3 antennas per Master Unit)	AGX AS21 SL

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