



xArray RFID gateway for detecting the position and movement of UHF tags in space

RFID revolution in item monitoring! The xArray gateways combine industry-leading reader performance with advanced antenna arrays to continuously identify items and their locations within large areas. Designed for large-scale, item-level applications in retail, healthcare, manufacturing or across your global supply chain, the xArray gateway provides real-time Item Intelligence events including an item's identity, location, and movement.

Improve item visibility. The xArray Gateway is a high-performance RAIN RFID reader system with an integrated antenna. The phase array antenna supports fifty-two beams organized into nine sectors. Each beam can be either horizontally or vertically polarized. An on-board processor controls the beam direction, orientation and polarization. The system has the capability to steer its antenna beam to read RFID tags. The device can be easily mounted on the ceiling.



Improve customer service, increase employee productivity, and make better business decisions.

Key features:

- Continuous, Hands-free Monitoring
- Real-Time Item Identification, Location, and Movement
- A single xArray gateway has a field of view up to 139m², resolve x-y locations to within 1.5m
- Expand coverage area with additional xArray or xSpan Gateways
- Integrated system streamlines the deployment process and minimizes installation costs
- Power and control through a single power over Ethernet (PoE) connection



Technical Description

Functionality & Operation

Frequency	UHF: 865 - 868 MHz (EU)
Antennas, Antenna inputs	polarized
Communication interface	Ethernet RJ-45
RFID transponder protocols	RAIN RFID: EPCglobal UHF RFID Class 1 Gen2v2 / ISO 18000-63
Signal coverage	139m2
Configuration	Impinj Web Management UI, Impijn RShell Management Console, SNMPv2 MIBII, EPCglobal Reader Management, Syslog

Optical

Scanning rate	1100 tags/s
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Mechanical

Weight	8kg
Dimensions	Width: 467mm, Height: 467mm Length: 75mm

Environment

Ingress protection	IP50
Operating temperature	-20 to 50°C
Storage temperature	-20 to 50°C
Operating humidity (non-condensing)	0 to 95%

Others

Application software	ItemSense, Speedway Connect, Octane Software Development Kit (SDK), Octane Embedded Tool Kit (ETK), EPCglobal Low Level Reader Protocol (LLRP) Tool Kit (LTK)
Development tools	Octane SDK (.NET and Java), LTK (C, C++, .NET, Java), ETK (C, C++)
Certifications	RoHS

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