Impinj xSpan and xArray Gateways

Simplify Deployments With Integrated Reader Systems

Impinj gateways include advanced antenna arrays to continuously identify items, their locations, and their movement within large areas. Our gateways provide inventory accuracy for retailers, show real-time asset location for healthcare providers, and give logistics companies visibility into their global supply chain.

Simplify deployments with integrated reader systems

Available in two models—xSpan and xArray—Impinj gateways are fixed infrastructure RAIN RFID reader systems that simplify deployment for applications that need always-on monitoring. Impinj gateways pair an Impinj Speedway reader with purpose-built antennas that monitor tagged items within an environment. Designed for large-scale, item-level applications, Impinj gateways provide real-time item intelligence events.

Why use Impinj gateways

Impinj gateways are deployed in RAIN RFID solutions around the world. They deliver:

Real-time item identification, location, and movement: monitor inventory, track movement, determine location of items.

High-performance: continuous, peak performance enabled through built-in automation.

Plug and play: integrated system streamlines the deployment process and minimizes installation costs; configuration development tools simplify installation.

The Impinj xArray and xSpan Gateways

Impinj xSpan gateway enables real-time inventory management, always-on asset tracking

Ideal for inventory management, asset tracking and dock door solutions in retail, healthcare, and supply chain, the Impinj xSpan gateway simplifies reader installation and management, lowering the total cost of infrastructure ownership. The xSpan gateway installs overhead or on walls to automatically monitor inventory and track item movement along a single axis. A single xSpan gateway has a field of view up to 1,000 ft2 (93 m2); coverage can be extended with multiple gateways.

Impinj xArray gateway improves visibility with always-on item intelligence

Designed for large-scale, item-level applications in retail, healthcare, and manufacturing, the Impinj xArray gateway provides always-on, wide-area monitoring, location, and direction of items. The xArray gateway installs overhead to automatically monitor inventory, determine x-y location of items, and track item movement along two axes. Resolve an item's x-y location to within 5 ft (1.5 m) and track movement in two dimensions. A single xArray gateway has a field of view up to 1,500 ft2 (139m2); coverage can be extended with multiple gateways.

Impinj Gateway Portfolio

		Impinj xArray	Impinj xSpan
SPECIFICATIONS	Air interface protocol	RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 compliant	
	Deploy	Fixed, overhead	Fixed, overhead or entries/exits
	Coverage	≤ 140m2 (1,500 sq.ft.)	≤ 90m2 (1,000 sq.ft)
	Read zones	52	13
	Radiated power (max)[1]	4W EIRP AC/PoE	4W EIRP AC/PoE
FEATURES	Turnkey implementation	✓	✓
	Built−in antennas	✓	✓
	Always-on endpoint monitoring	✓	✓
	Endpoint (tagged item) location mapping	✓	
	Threshold monitoring	✓	✓
	Power sources	AC-DC power supply: all models IEEE 802.3af PoE: all models except EU2 IEEE 802.3at PoE+: EU2 model	

[1]Refer to regulations for country-specific limitations

Impinj product performance is based on Impinj's modeling and test data, actual results may vary.

Ready to discuss how Impinj can help your business?

Contact us: www.impinj.com

Impinj (NASDAQ: PI) helps businesses and people analyze, optimize, and innovate by wirelessly connecting billions of everyday things—such as apparel, automobile parts, luggage, and shipments—to the Internet. The Impinj platform uses RAIN RFID to deliver timely data about these everyday things to business and consumer applications, enabling a boundless Internet of Things.

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