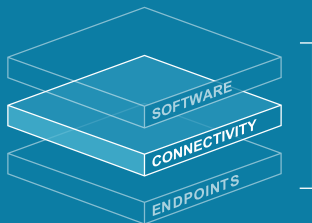# IMPINJ®
xSPAN™

xSpan RAIN RFID Gateway

The Impinj xSpan gateway is a fixed-infrastructure RAIN RFID reader system that reduces business operational costs and maximizes sales through constant, accurate inventory visibility.

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 xSpan gateway simplifies RAIN RFID reader installation and management, lowering the total cost of infrastructure ownership.

SOFTWARE
CONNECTIVITY
ENDPOINTS

The Impinj Platform includes Connectivity Devices

xSpan Benefits

Continuous, Hands-free Monitoring
Installs overhead or on walls to automatically monitor items within a rectangular space for always-on connectivity

Real-Time Item Identification and Movement
Monitor inventory and track item movement along a single axis

Plug and Play
Integrated system streamlines the deployment process and minimizes installation costs

Key Features

> ### Rectangular Area Monitoring
> A single xSpan gateway has a field of view up to 1,000 ft² (93m²); coverage extended with multiple gateways

> ### Track Movement in Real-Time
> Track movement in one dimension

> ### Platform Ready
> Leverage ItemSense software for large-scale data aggregation and device management

Use Cases

Supply Chain
Monitor tagged items, pallets, equipment, files or people passing through doorways, hallways, or other zonal coverage areas

Asset Tracking
Increase asset availability while reducing labor costs and inefficiencies due to manual cycle counts

Shipment Verification
Improve efficiency by ensuring accurate material flow from receiving, through production, and out dock doors

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Gateway Family Overview

Impinj gateways combine industry-leading reader performance with advanced antenna arrays to continuously identify items and their locations within large areas. The Item Intelligence gathered provides inventory accuracy for retailers, shows real-time asset location for healthcare providers and gives logistics companies visualization into their global supply chain.

Product Details	xSpan Gateway	xArray Gateway	xPortal Gateway
Recommended Usage	Portals and entrances Room monitoring Movement detection	Portals and entrances Large area monitoring Movement detection Locating item	Portals and entrances
Air Interface Protocol	RAIN RFID: EPCglobal UHF RFID Class 1 Gen2v2 / ISO 18000-63		
Number of Antenna Beams	13	52	2
Operating Modes	Inventory (tag monitoring) Tag Direction (track tags as they move through sectors along a single axis)	Inventory (tag monitoring) Tag Direction (track tags as they move through sectors along two axes)	Inventory (tag monitoring)
Coverage Area (typical)	≤ 1,000 ft^2 (93 m^2)	≤ 1,500 ft^2 (139 m^2)	≤ 700 ft^2 (65 m^2)
Dimensions	18.8 x 8.7 x 3.5 in (48 x 22 x 9 cm)	18 x 18 x 3 in (46.7 x 46.7 x 7.5 cm)	30.5 x 8.75 x 2 in (77.5 x 22.2 x 5 cm)
Weight	7.6 lbs (3.4 kg)	17.8 lbs (8.0 kg)	6.5 lbs (3 kg)
Max Receive Sensitivity	-84 dBm		
Supported Regions	For a list of supported regions and geograpies please go to: www.impinj.com/supported_regions		
Software supported	Octane SDK (.NET and Java), LTK (C, C++, .NET, Java), ItemTest, ItemSense		
3dB beam width - sum of all antenna beams	FCC: 116° major axis, 75° minor axis EU: 120° major axis, 83° minor axis	FCC: 116° major axis EU: 120° major axis	120° major axis, 80° minor axis
Mounting	Vesa 75, Vesa 200 x 100, or Direct Attach	Vesa 200 or Direct Attach	Vesa 75, Vesa 100, Keyhole slots or Direct Attach
Sealing / Temperature / Humidity	IEC IP50 / Operating -20°C to 50°C; Storage -20°C to 50°C / 5% to 95% non-condensing		IEC IP52 / Operating -20°C to 50°C; Storage -20°C to 50°C / 5% to 95% non-condensing
GPIO support	NO	NO	YES
Management Interface	Impinj Web UI; Impinj Rshell Management Console using console port or SSH; SNMPv2/v3 MIBII; EPCglobal Reader Management v1.0.1; Syslog		
Network Connectivity	10/100BASE-T		
RoHS Compliant	YES		
Power Sources	802.3af PoE or AC-DC power supply rated for 24Vdc/2.1A		
Power Consumption	Idle 7 W; Maximum power 15.4 W		

Ready to discuss how Impinj can help your business?

CONTACT US / WWW.IMPINJ.COM

Impinj (NASDAQ: PI) wirelessly connects billions of everyday items such as apparel, medical supplies, and automobile parts to consumer and business applications such as inventory management, patient safety, and asset tracking. The Impinj platform uses RAIN RFID to deliver timely information about these items to the digital world, thereby enabling the Internet of Things.

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