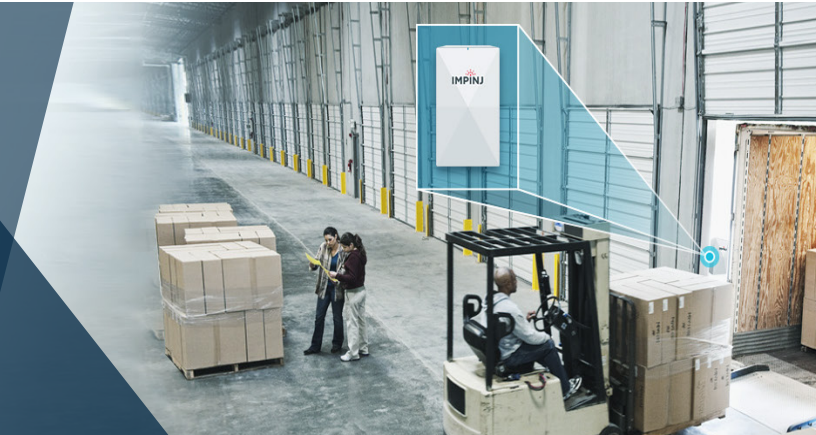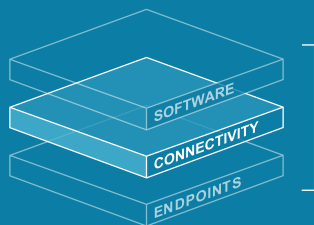# IMPINJ®
xSPAN™

Impinj 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 Impinj 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

Impinj 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 Impinj 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 Impinj 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.

Specifications	Impinj xSpan Gateway	Impinj xArray Gateway	Impinj xPortal Gateway
Operating Frequencies *Refer to country-specific regulations for channel allocation within the band*	FCC: 902-928 MHz / EU1: 865-868 MHz / EU2: 915-921 MHz / GX1: 902-928 MHz / GX2: 902-925 MHz / GX3: 920-926 MHz / JP2: 916-921 MHz	FCC: 902-928 MHz / EU1: 865-868 MHz / EU2: 915-921 MHz / GX1: 902-928 MHz / GX2: 902-925 MHz / GX3: 920-926 MHz / JP2: 916-921 MHz	FCC: 902-928 MHz / EU1: 865-868 MHz / GX1: 902-928 MHz / GX2: 902-925 MHz / GX3: 920-926 MHz
Radiated Power (max) *Refer to regulations for country-specific limitations*	FCC: 4W EIRP AC/PoE EU1: 2W ERP AC/PoE EU2: 4W ERP AC/PoE+ GX1: 4W EIRP AC/PoE GX2: 4W EIRP AC/PoE GX3: 4W EIRP AC/PoE JP2: 4W EIRP AC/PoE	FCC: 4W EIRP AC/PoE EU1: 2W ERP AC/PoE EU2: 4W ERP AC/PoE+ GX1: 4W EIRP AC/PoE GX2: 4W EIRP AC/PoE GX3: 4W EIRP AC/PoE JP2: 4W EIRP AC/PoE	FCC: 4W EIRP AC/PoE EU1: 2W ERP AC/PoE GX1: 4W EIRP AC/PoE GX2: 4W EIRP AC/PoE GX3: 4W EIRP AC/PoE
Operating Roles	2 (inventory, direction)	3 (inventory, direction, location)	1 (inventory)
Antenna Beams	13	52	2
3dB beam width (sum of all beams)	116° major/75° minor axis: all models except EU1 model 120° major/83° minor axis: EU1 model	116° major/75° minor axis: all models except EU1 model 120° major/83° minor axis: EU1 model	120° major/80° minor axis
Coverage Area (typical)	1,000 ft^2 (93 m^2): all models except EU2 model 1,300 ft^2 (121 m^2): EU2 model	1,500 ft^2 (139 m^2): all models except EU2 model 2,000 ft^2 (186 m^2): EU2 model	700 ft^2 (65 m^2)
Dimensions (H x W x D)	18.8 x 8.7 x 3.5 in (48.0 x 22.0 x 9.0 cm)	18.0 x 18.0 x 3.0 in (46.7 x 46.7 x 7.5 cm)	30.5 x 8.75 x 2.0 in (77.5 x 22.2 x 5 cm)
Weight	7.6 lb (3.4 kg)	17.8 lb (8.0 kg)	6.5 lb (3 kg)
Power Sources	AC-DC power supply: all models IEEE 802.3af PoE: all models except EU2 IEEE 802.3at PoE+: EU2 model		AC-DC power supply: all models IEEE 802.3af PoE: all models
Maximum Read Rate	1100 tags/s		
Antenna Type	Dual-Linear Phased Array antenna		
Regulatory Certifications	For a list of supported regions and geographies please go to: www.impinj.com/supported_regions		
Air Interface Protocol	RAIN RFID: EPCglobal UHF RFID Class 1 Gen2v2 / ISO 18000-63		

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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