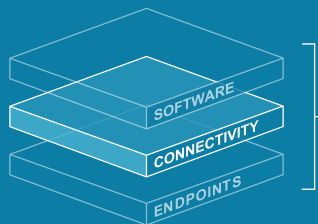# IMPINJ®
xPORTAL™

xPortal RAIN RFID Gateway

The Impinj xPortal fixed-infrastructure RAIN RFID reader system provides hands-free inventory monitoring and asset tracking within linear spaces.

Inventory Management, Always-On Asset Tracking

The lightweight and low profile xPortal gateway solves the size and mounting limitations of traditional portals, making it ideal for monitoring items, pallets or equipment passing through doorways, hallways, dock doors or other zonal coverage areas.

SOFTWARE
CONNECTIVITY
ENDPOINTS

The Impinj Platform includes Connectivity Devices

xPortal Benefits

Continuous Entry and Exit Monitoring
Real-time, 24/7 collection of item-level analytics for entryways and exits

Plug and Play
Configuration and development tools simplify installation

High Performance
Continuous, peak performance through built-in automation

Key Features

> **Continuous Monitoring**
> A single xPortal gateway has a field of view up to 700 ft² (65m²); extend coverage with multiple gateways

> **DLPA Antenna Technology**
> Two dynamically-managed read zones identify items as they pass through choke points

> **Compact Design**
> Low-profile and light-weight for easy installation on walls and overhead

Use Cases

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

Industrial Automation
Always-on inventory and portal or door transition awareness for industrial applications

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

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IMPINJ™

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	xPortal Gateway	xArray Gateway	xSpan Gateway
Recommended Usage	Portals and entrances	Portals and entrances Large area monitoring Movement detection Locating item	Portals and entrances Room monitoring Movement detection
Air Interface Protocol	RAIN RFID: EPCglobal UHF RFID Class 1 Gen2v2 / ISO 18000-63		
Number of Antenna Beams	2	52	13
Operating Modes	Inventory (tag monitoring)	Inventory (tag monitoring) Tag Direction (track tags as they move through sectors along two axes)	Inventory (tag monitoring) Tag Direction (track tags as they move through sectors along a single axis)
Coverage Area (typical)	≤ 700 ft^2 (65 m^2)	≤ 1,500 ft^2 (139 m^2)	≤ 1,000 ft^2 (93 m^2)
Dimensions	30.5 x 8.75 x 2 in (77.5 x 22.2 x 5 cm)	18 x 18 x 3 in (46.7 x 46.7 x 7.5 cm)	18.8 x 8.7 x 3.5 in (48 x 22 x 9 cm)
Weight	6.5 lbs (3 kg)	17.8 lbs (8.0 kg)	7.6 lbs (3.4 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	120° major axis, 80° minor axis	FCC: 116° major axis EU: 120° major axis	FCC: 116° major axis, 75° minor axis EU: 120° major axis, 83° minor axis
Mounting	Vesa 75, Vesa 100, Keyhole slots or Direct Attach	Vesa 200 or Direct Attach	Vesa 75, Vesa 200 x 100, or Direct Attach
Sealing / Temperature / Humidity	IEC IP52 / Operating -20°C to 50°C; Storage -20°C to 50°C / 5% to 95% non-condensing	IEC IP50 / Operating -20°C to 50°C; Storage -20°C to 50°C / 5% to 95% non-condensing	
GPIO support	YES	NO	NO
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		

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.