

# Exaion Gateway K1

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A relevant technical and economical solution to meet the growing need of securing data exchanges.

A network gateway capable of collecting data and transfer them without compromising site security.

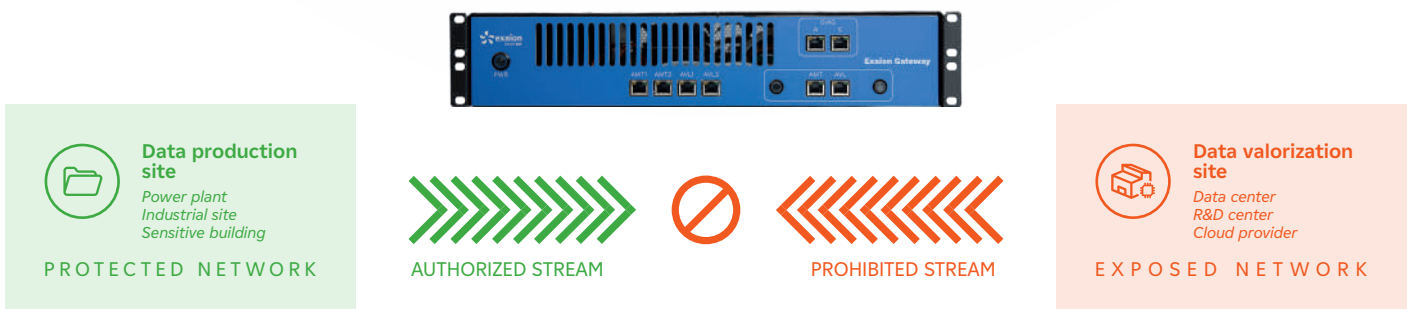
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A common solution to protect sensitive or classified information from being compromised is to disconnect it completely from other networks. But there are situations where this data must still be transferred.

To effectively address this issue, Exaion Gateway positions itself between two networks and ensures that data can pass in the intended direction, while blocking any traffic in the opposite direction.

Exaion Gateway is a secure data transfer solution that guarantees the protection of the IS against the risks of intrusion at the source site (factory, company, offices...) against malicious attacks from external networks and/or the Internet (Cloud, management IS...)

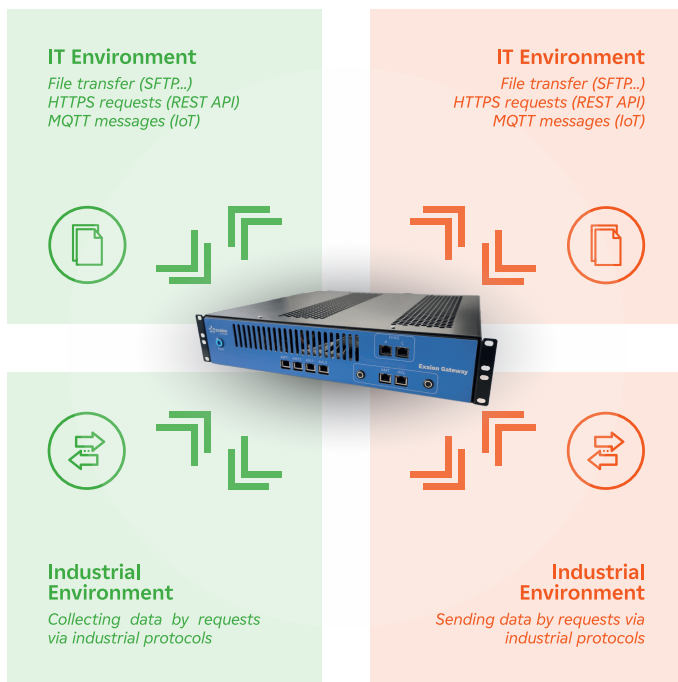


Exaion Gateway relies on the laws of physics to physically operate in only one direction. This technical choice considerably reinforces the security level of the source site compared to the perimeter protection offered by a traditional firewall.

At the heart of the equipment, there is a systematic break in protocol, thus increased security because it makes it impossible for any ill-intentioned person to see or obtain information on the source network, thus also preventing the transmission of malicious data hidden in the packet headers.

## USE CASES

Exaion Gateway is much more than a simple and secure network interconnection gateway. It allows data to be collected simultaneously from several sources and in different protocols before being sent, also simultaneously, to several destinations and in several protocols, both industrial and IT, identical or different from those used during collection.



This allows Exaion Gateway to address different use cases including:

- Optimizing industrial production in factories;
- Optimizing the operation of power plants;
- Monitoring energy consumption of tertiary or industrial sites;
- Replicating CTM/Scada in a remote telecontrol site;
- Archiving logs to a SIEM automatically from a remote location, for example;
- Viewing video surveillance images on a remote site without the risk of the source images being manipulated.

## ROADMAP

Development efforts around Exaion Gateway are ongoing and several new features are already being tested in our labs:

- New 100% passive unidirectional optical core;
- Increased raw bit rates to 10Gbps;
- Connection to equipment by either fiber optic (SFP+) or RJ45 ;
- Increased data processing capacity;
- Support for multiple optical modules for increased bandwidth, increased redundancy, and data stream segregation.

## SPECIFICATIONS

### Technical Features

Dimensions	19" 2U case (483mm x 90mm x 435mm / 10kg)
Network Interfaces	Per box: <ul style="list-style-type: none"> <li>▪ 1Gbps RJ45 for connection to customer networks</li> <li>▪ 2x1Gbps RJ45 for user application</li> <li>▪ 1x1Gbps RJ45 for maintenance (IPMI)</li> <li>▪ Internally: 1Gbps unidirectional optic</li> </ul>
Power Supply	Platinum redundant 100-240V 50-60Hz 495W (consumption 55-140W)
Operation	Class A2 (ASHRAE) : <ul style="list-style-type: none"> <li>▪ 10-35°C (10-95°F) - 20-80% relative humidity</li> </ul> Calculated MTBF: 100,000 hours (11 years)
TPM	TPM 2.0

### Performances

Raw throughput	1Gbps
Useful throughput	Up to 700Mbps

### Features

Internal Transmission (Unidirectional)	<b>Error correction algorithm Redundancy</b> Protocol break
Data Collection and Restitution (Bidirectional)	Industrial protocols: JBus/Modbus-TCP, OPC-UA IT protocols: SFTP, HTTPS, MQTT... Inter-protocol gateway Multipoint restitution UDP Pass-through mode
Resilience	Encryption, Filtering, Bufferization Integrated firewalls and antiDoS
Additional Services	Virtualized hosting of business applications (VM / Docker)
MCO	Proactive supervision Secure remote maintenance (optional diagBox)