Product datasheet

Xchange.

Stronger than Firewall, smarter than Data Diode

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Hardware-enforced cross-domain gateway for sensitive or critical networks and infrastructures.

HARDWARE SECURITY FOR ROBUSTNESS & RESILIENCE
Seclab's electronic patented technology makes Xchange more robust and resilient than most security gateways.

DRAMATICALLY REDUCE EXPOSURE OF YOUR ASSETS
As innovation and competitiveness require more data and connectivity, Xchange allows **safe data exchanges (One-way or Two-way)** between IT networks and critical networks and infrastructures.

DESIGN WHICH RAISE THE BAR
We design our products to match the most demanding OT and IT environments: adapted product lifecycle, low impact on existing infrastructure and best in class MTBF.

Benefits
HARDWARE PROTOCOL BREAKING

- zero day proof
- True network segregation
- Immutable operation

BI-DIRECTIONAL

- Flow filtering
- File transfer

DESIGNED FOR OT AND ADAPTED FOR IT

- Easy administration
- Low TCO and high resilience
- Little or no impact on existing systems
- Transparent to business processes

File Transfer Module

- Embedded FTP/FTPS/SFTP proxies
- Prevent any attack to pass through the device from Ethernet to file transfer protocol layer
- Configurable file validation policy (name, size, MIME Type, cryptographic signature)

Unique technology

- Stand-alone product
- Embedded "File Transfer" and "Transport Modules"
- Neutralize network attacks
- Resilient to its own compromission thanks to its 3-tiers hardware based architecture
- Provides direction control
- Allows filtering
- Certified: link

Transport Module

- Embedded TCP and UDP proxies
- Prevent any attack to pass through the device from Ethernet to TCP/UDP layers
- Compatible with any protocol on top of TCP or UDP

Technical specifications.

Performance

File Transfer module speed	Up to 800 Mb/s
Transport module speed	Up to 500 Mb/s

Network Connectivity (Transport Module)

Concurrent sessions (TCP/UDP)	12 800

Connectivity

10/100/1000 Interfaces	2
Default copper interface	Yes
Optional fiber interface	Yes

Hardware

Local storage for File Transfer	160gb
Racking	1U – 19"
Power supply	220VAC - 2 redundant power supplies
Power consumption	50W
Operational Temperature	0 – 45 °C
Storage Temperature	-20 °C – 70 °C
Humidity	10 – 80% non-condensing

Certifications	CSPN (ANSSI)

Regulatory Compliance & Harmonized Standards.

Directive / Regulation	Applicable Standard(s)
2014/35/EU (LVD)	EN 62368-1:2018
Council Recommendation 1999/519/EC	EN 62311 :2008
2014/30/EU (EMC)	EN 55032:2015 / A11:2020, EN 55035:2017 / A11:2020, IEC 61000-3-2 :2018 / A1 :2020, IEC 61000-3-3 :2013 / A1 :2017 / A2 :2021
2911/65/EU (RoHS)	EN IEC 63000:2018
WEEE Directive – 2012/19/EU	EN 50419 :2006
Eco Regulation – 209/125/EC	No specific standard
Ecodesign Labelling Regulation 2017/1369/EU	No specific standard
REACH Regulation – EC 1907/2006	Substance compliance managed via supplier declarations
Packaging Waste Directive 1994/62/EC	Supplier declarations

Regulatory Markings.

Markings	Region	Scope of Compliance
CE	European Union	Confirms conformity with applicable EU directives : LVD (2024/35/EU), EMC (2014/30/EU), RoHS (2011/65/EU), REACH, WEEE (2021/19/EU) , ErP
UKCA	United Kingdom	Equivalent to CE marking for UK market access
FCC	United States	Compliance with FCC Part 15

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