



Datasheet

Product line
Xchange.

Set-and-Forget Security

Xchange.

A range of cross-domain security gateways for the physical isolation of industrial networks and critical infrastructure.

CROSS-DOMAIN DATA EXCHANGE

Innovation and competitiveness demand ever more data and connectivity. Xchange enables secure data exchange with IT networks, unidirectional or bidirectional, without exposing OT or critical infrastructure.

ROBUSTNESS AND RESILIENCE

Seclab’s patented Electronic AirGap technology makes Xchange more robust and resilient than most security gateways. Its hardware security mechanism protects it from software vulnerabilities that would weaken its level of protection.

LONG-LASTING SECURITY BUILT FOR OT

Our products are deployed in the most demanding environments. They offer a controlled lifecycle, minimal impact on existing systems, reduced maintenance (one update per year on average) and one of the best MTBFs on the market.

HARDWARE-BASED PROTOCOL BREAK

- Protection against zero-day vulnerabilities
- Network isolation and masking
- Blocks reconnaissance and lateral movement
- Immutable operation

MODULARITY

- Network flow transfer
- File transfer*

EASE OF OPERATION

- Simplified administration
- Limited impact on network architecture
- No patch management
- No additional components required

COMPLIANCE

- NIS2/ReCyF
- IEC-62443
- NERC CIP

Designed and assembled by
Seclab. Made in Europe.

Unique Technology

- Patented hardware device
- Built-in “file transfer” and “transport” modules
- Network masking
- Dual administration to ensure airtight security
- Resilient to its own compromise thanks to a 3-tier hardware architecture
- Flow direction control

Transport Module

- Built-in TCP and UDP proxies
- Unidirectional or bidirectional network flows (no external proxies required)
- Blocks network attacks up to the transport layer
- Inspection (DPI) and filtering of industrial protocol commands
- Native support for any TCP- or UDP-based protocol, including encrypted flows

File Transfer Module*

- Built-in FTP/FTPS/SFTP proxies
- Blocks network attacks up to the file transfer protocol layer
- Configurable file filtering policy (name, size, MIME type, cryptographic signature)

* Module available only on appliances with hard drives (HD version)

Technical specifications.

	Xchange Light Model DL300		Xchange Model D300	
	No-HD	HD	No-HD	HD
Performance				
Max. throughput, file transfer module	No	500 Mbps	No	800 Mbps
Max. throughput, transport module	500 Mbps	500 Mbps	1,2 Gbps	1,2 Gbps
Added latency, transport module	≤ 1 ms	≤ 1 ms	≤ 1 ms	≤ 1 ms
Network connectivity (transport module)				
Concurrent sessions (TCP/UDP)	12,800	12,800	12,800	12,800
Nb. of application protocols supported (DPI)	2	2	No limitation	No limitation
Connectivity				
SFP network interfaces (copper/fiber 1G)	2	2	3	3
SFP+ network interfaces (fiber 10G)	No	No	Yes	Yes
SFP management interfaces (copper/fiber 1G)	3	3	3	3
USB console ports for local administration	3	3	3	3
Hardware				
Local storage for file transfer	No	60 GB	No	160 GB
Local log storage on SD card	No	No	Yes	Yes
Redundant power supply	No	No	Yes	Yes
Depth	280 mm			
Weight	3.3 kg			
Rack mounting	1U – 19"			
Power supply	220 VAC			
Power consumption	50W			
Operating temperature	0 – 35 °C		0 – 45 °C	
Storage temperature	-20 °C – 70 °C			
Humidity	10 – 80% non-condensing			

HD = model with hard drives, required to use the file transfer module.
No-HD = model without hard drives; the file transfer module is not available.

ELECTRONIC AIRGAP: THE ISOLATION OF A DIODE, THE FLEXIBILITY OF A GATEWAY

Electronic AirGap is a patented technology designed by Seclab. It is built on a three-processor architecture, with each processor handling a distinct security function.

Network layers 1 to 4 stop at the gateway’s entry point. Only application data is transmitted, over a non-routable electronic bus, and then rebuilt on the other side. This is a hardware protocol break: no TCP/IP session connects the two networks.

The security policy is split between two independent access controls. A flow must be authorized on both sides. Compromising a single component is not enough to open a path.

Compliance and markings.

Domain	Regulation	Reference standard	Marking
Electrical safety	Low Voltage Directive 2014/35/EU	EN 62368-1	CE · UKCA
Electromagnetic compatibility	EMC Directive 2014/30/EU FCC Part 15	EN 55032 EN 55035	CE · UKCA · FCC
Hazardous substances	RoHS 2011/65/EU REACH (EC) 1907/2006	EN IEC 63000	CE · UKCA
End of life and recycling	WEEE 2012/19/EU	EN 50419	WEEE symbol

Ordering information.

Part number	Product name	Model type	Hardware model
ACQ-HW-D300_APP-EU	Xchange	D300 - No-HD	D300C-000-V3G
ACQ-HW-D300_APP_SPARE-EU	Xchange	D300 - No-HD	D300C-000-V3G
ACQ-HW-D300_APP_EXP-EU	Xchange	D300 - No-HD	D300C-000-V3G
ACQ-HW-D300_APP_SPARE_EXP-EU	Xchange	D300 - No-HD	D300C-000-V3G
ACQ-HW-D300_DD_APP-EU	Xchange	D300 - HD	D300C-B0B-V3G
ACQ-HW-D300_DD_APP_SPARE-EU	Xchange	D300 - HD	D300C-B0B-V3G
ACQ-HW-DL300_APP-EU	Xchange Light	DL300 - No-HD	DL300C-000-V3G
ACQ-HW-DL300_APP_SPARE-EU	Xchange Light	DL300 - No-HD	DL300C-000-V3G
ACQ-HW-DL300_DD_APP-EU	Xchange Light	DL300 - HD	DL300C-D0D-V3G
ACQ-HW-DL300_DD_APP_SPARE-EU	Xchange Light	DL300 - HD	DL300C-D0D-V3G



Next-Gen OT
Cybersecurity Platform

