



Datasheet

CipherWall

High Performance
Cipher/Firewall



2-ports RJ45 10/100/1000

POE Power Supply

Designed and Made in France

SF-106-2

One Device, Endless Roles

Firewall, Cybersecurity, Cipher / Decipher, POE

Protection Against Attacks

Total protection against DoS and DDoS
Delete Corrupt packets
No memory stack overflow

Real Time Firewall

Ultra low-Latency

Integrity

AES-256-GM-16 encryption / decryption
Native data flow segregation
Data flow integrity: IPSec
Store & Forward

100% Available Bandwidth

Guaranteed low-latency encryption/decryption
Internal processing above 4Gbps

Low-Latency Routing

Encryption/decryption latency with IPSec
64-byte frame → < 3 μs
512-byte frame → < 10 μs
1518-byte frame → < 25 μs

Designed for Industries

Temperature grade -40°C / +85°C
gPTP
Synchronisation +/- 10ns per jump

Sovereignty

R&D and Manufacturing Made in France
Technical Support in France

Low CSR Impact

Low-consumption
Limited carbon footprint

Easy Deployment

Different power supply modes:
+9V to +48V DC or POE power supply

- If POE: also provides the POE
- If 48V: behave as a POE injector

Evolutionary
Network or USB-C Configuration

Health Monitoring

Detection, characterization, timestamping and transmission of anomalies to CISO and AI



Specifications

Performance

Total Speed (2 ports full duplex)	4 Gbps
Routing Latency (VPN + Firewall)	3 µs à 25 µs

VPN

IPSec Speed - AES-256-GCM-16 (per port)	1 Gbps
Max VPN IPSec Tunnel (per port)	16

Firewall

Firewall Count (1 per port)	2
Rules Number per Port	32

Protection Against Threats

Native Detection & Protection Against DDoS Attacks:
processing is done in the traffic.

Firewall Functionality:

Through protocol analysis and verification of compliance against the rules defined by the user in the configuration application, independently for each port.

Connectivity

Copper Interface 1000BaseT RJ45	2
USB-C Port (console)	1
Power Supply	1

Hardware

H x W x D	70x40x20 mm
Weight	170 g
Power Supply	+9V to +48V or POE
Max Consumption	1 W
Operating Temperature	-40°C to +85°C

Configuration Management

Remote Management Interface.

Inbound Rules:

- Flow frequency
- Flow consistency
- MAC address filtering
- QinQ and/or VLAN filtering
- IP address filtering
- Filtering by protocol and port

Product References

	SF-106-2-WPA	SF-106-2-IKEv2
Firewall	●	●
IPSec	●	●
Anti-DDoS	●	●
WPA3	●	-
IKeV2	-	●



Pure **Simplicity** Absolute **Security**



Leveraging 15+ Years Of Research

Our technology is based on the implementation of real-time data processing mechanisms, exclusively using programmable logic hardware.

Need more information?



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