



# The **Ultimate**

**10/100/1000  
Cyber Network  
Controller**

9 Unique Real-Time Firewalls

Seamless Installation

Cipher/Decipher

Designed and Made in France



## SF-106-8

# One Device, Endless Roles

Commuter, Router, Firewall, Cybersecurity, Cipher / Decipher

## Protection Against Attacks

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

## 9 Real-Time Firewalls

1 independent firewall per port  
Ultra low-Latency

## Integrity

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

## 100% Available Bandwidth

Guaranteed low-latency encryption/decryption  
Internal processing above 18Gbps

## Low-Latency Routing

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

## Easy Deployment

Power supply +12V to +36V DC  
Redundant power supply  
DIN-Rail  
Evolutive  
Network or USB-C Configuration

## 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

## Health Monitoring

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



# Specifications

## Performance

Total Speed (9 ports full duplex)	18 Gbps
Routing Latency + firewall + VPN	3 µs à 25 µs

## VPN

IPSec Speed - AES-256-GCM-16 (per port)	1 Gbps
Max VPN IPSec Tunnel (per port)	32

## Firewall

Firewall Count (1 per port)	9
Rules Number per Port	64

## 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	9
USB-C Port (console)	1
Power Supply	2

## Hardware

H x W x D	165x100x65 mm
Weight	780 g
Power Supply	+12V to +36V
Max Consumption	10 W
Operating Temperature	-40°C to +85°C

## Configuration Management

Remote Management Interface.

**Inbound Rules:**

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

## Product References

	SF-106-8-WPA	SF-106-8-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?



[www.p4s-archi.com](http://www.p4s-archi.com)



[contact@p4s-archi.com](mailto:contact@p4s-archi.com)



5 rue bellini, 92800 Putaux, France

Visit Our Website

