NEW GEN CYBER SOLUTIONS
// SOFTLESS SECURITY

DATASHEET

NGCS · SF-106-8 · The Ultimate

Cyber Network Controller

10 / 100 / 1000 Cyber Network Controller

9 Unique Real-Time Firewalls | Seamless Installation | Cipher / Decipher



SF-106-8

NEW GEN CYBER SOLUTIONS
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DATASHEET

One Device, Endless Roles

CONTROLLER · ROUTER · FIREWALL · CYBERSECURITY · CIPHER / DECIPHER

Protection Against Attacks

Total protection against DoS and DDoS attacks. Deletes corrupt packets automatically. No memory stack overflow, even under sustained load.

9 Real-Time Firewalls

1 independent, ultra low-latency hardware firewall per port — nine isolated enforcement points in a single appliance.

Integrity

AES-256-GCM-16 encryption/decryption, native data flow segregation, IPSec integrity, flow monitoring and analysis, and store & forward.

100% Available Bandwidth

Guaranteed low-latency encryption and decryption with internal processing above 18 Gbps across all nine ports.

Low-Latency Routing

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

Easy Deployment

+12V to +36V DC with redundant power supply, DIN-rail mount, and network or USB-C configuration.

Designed for Industries

Temperature grade −40°C to +85°C with gPTP synchronization accurate to ±10ns per jump.

Health Monitoring

Detection, characterization, timestamping, and transmission of anomalies directly to CISO dashboards and AI systems.

Specifications

Performance

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

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

Connectivity

Copper Interface 1000BaseT RJ45	9
USB-C Port (console)	1
Power Supply	2

Hardware

H x W x D	165 x 100 x 65 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	Yes

Protection Against Threats

Native Detection & Protection Against DDoS Attacks

Through protocol analysis and verification of compliance against the rules defined by the user in the configuration application, independently for each port — processing is done inline in the traffic.

INBOUND RULES · Flow frequency · Flow consistency

Firewall Functionality

QinQ and/or VLAN filtering, MAC address filtering, IP address filtering, and filtering by protocol and port — applied independently per 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

Built on 15+ years of real-time data processing research, implemented exclusively in programmable logic hardware — FPGA-based, with zero software attack surface.

Need more information?

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