

SOLID™ PRODUCT RANGE
NET



The **SOLIDnet™** products form part of the **SOLIDguard** range of security appliances and provide for secure communication of Virtual Private Networks (VPN) over public network infrastructures using IPsec.

These devices are intended for a broad variety of networking applications and are designed for communicating at Top Secret classification levels if required.

The **SN9008** device is aimed at travelling members of defense and government organisations who wish to establish remote access connections to headquarters via public and / or satellite networks.

The **SOLIDnet™** appliances are hardware network encryption devices with various levels of firmware and software that:

- encrypts network traffic flowing over public or shared networks
- enables commercial or proprietary (client supplied) cryptographic algorithms
- provides cryptographically authenticated secure administrative access
- offers a user friendly system, simple to use and visibly secure
- has a Secure Policy Management and Token Management feature
- provides VPN fire-walling

Each device in the family is equipped with two network interfaces (red and black) to provide for separate connections to the public and private segments of the network. Each device is also securely managed through a dedicated management interface.

Specifications

Technical Specifications

	SN9201	SN9008
Transmission Rates	Throughput with AES algorithm (maximum size packets, full duplex) ≥ 100Mbps	Throughput with AES algorithm (maximum size packets, full duplex) ≥ 10Mbps
Transmission Standards	Fast Ethernet, Gigabit Ethernet	

Communication Interfaces

	SN9201	SN9008
Interface Types	Private Interface with support for the following	
	100/1000 BASE-TX via RJ-45 connectors	100 BASE-TX via RJ-45 connectors
	1000BASE-SX via SFP connectors	USB 3.0 via Type-B connectors
	Public Interface with support for the following media types	
	100/1000 BASE-TX via RJ-45 connectors	100 BASE-TX via RJ-45 connectors
	1000BASE-SX via SFP connectors	USB 2.0 via Type-A connectors
		802.11 a/b/g/n/ac WiFi interface
	One RJ45 Ethernet port for local management purposes	
Two USB Type-A port for USB Token	One USB Type-A port for USB Token	

Operator Interfaces

	SN9201	SN9008
Touchpad & Screen	Graphical LCD screen (non scanned) with touchpad interface	
LEDs	Seven Bi-Colour LEDs for Status and Fault Indication	
	Green Power LED Indicator	
	Red Tamper LED Indicator	

Operational Specifications

	SN9201	SN9008
	512 Encrypted (full duplex) devices using IPsec Version 2	64 Encrypted (full duplex) devices using IPsec Version 2
	Multicast traffic	
	Able to operate in both bump-in-the-wire (bridging) and gateway (routing) modes	
	VPN firewalling capabilities	
	Bi-directional IPsec tunnels	
	NAT traversal	
	Integrated Performance Enhancing Proxy (PEP) for accelerated data throughput on satellite networks	



Specifications

Cryptographic Algorithms

	SN9201	SN9008
Symmetric Cipher	AES with 256 bit key length	
	Support for one custom symmetric cipher	
Asymmetric Cipher	RSA with 2048 / 4096 bit modulus	
	Diffie Hellman with 4096 / 8192 bit MODP	
	HMAC using SHA-256 hashing algorithm	

Authentication

	SN9201	SN9008
	PKI with private key stored in encrypted memory	
	PKI with PIN protected private key for administrators	
	Critical Security Parameters stored in encrypted memory	
	Customer cipher stored in encrypted memory	

Mechanical / Electrical / Environmental

	SN9201	SN9008
Storage Temperature	-40°C to 70°C	
Operating Temperature	-5°C to 55°C	
Size	19" rack mount 1U	Rugged portable
Input voltage / Power supply	9 to 36 VDC or 110 to 240 VAC	USB 2/3 USB Power brick
Power Consumption	35 watt	Low power < 5 W Full power < 20 Watt
Ingress Protection	IP-20	IP-54

Certifications, Standards & Classifications

	SN9201	SN9008
EMC	FIPS 140-2 EMC compliance	
Security	Tamper protection based on elements of FIPS 140-2 Level 2	Active Tamper protection is provided based on elements of FIPS 140-2 Level 3