

# nGenius Decryption Appliance

## HIGHLIGHTS

- 4 and 8 port models for 10 Gbps, 20 Gbps and 40 Gbps bidirectional traffic
  - Two or four 1/10Gbps network ports
  - Plus, two or four 10Gbps monitoring tool ports
- Passive (out of band) and active (inline) deployment options with nGenius® Packet Flow Switches chaining multiple service assurance and security tools
- SSL/TLS encryption and decryption for SSL 3.0, TLS 1.0, TLS 1.1, TLS 1.2, and TLS 1.3 and SSH
- Supports encryption keys of different types:
  - Static and ephemeral (dynamic)
  - Symmetrical and asymmetrical
- Supports multiple hashing algorithms
- Management via CLI and Web UI
- Policy based selection decryption
- FIPS Level 1 support

In an effort to ensure privacy and security of data, encryption of network traffic is often a common practice. SSL/TLS has become the dominant stream-oriented encryption protocol and now constitutes a significant and growing percentage of traffic in the enterprise LAN and WAN, as well as throughout service provider networks. It has proven popular as it is easily deployed by software vendors, while offering privacy and integrity protection.

The nGenius Decryption Appliance (nDA) enables encrypted traffic inspection of SSL/TLS while not compromising the use of SSL/TLS or reducing performance. It is deployed as a transparent inline bump-in-the-wire (BITW) device, enabling it to be used in L2 or L3 environments without having to re-architect networks or configure client devices to explicitly send traffic to proxies. In this mode, the nDA feeds decrypted traffic to inline or passive service assurance and security tools. Alternatively, nDA can be deployed as a passive out of band appliance to decrypt and feed traffic to passively attached service assurance and security tools. When combined with the NETSCOUT® nGenius Packet Flow Switches (PFS), service chains comprised of multiple inline or passive tools can also be created.

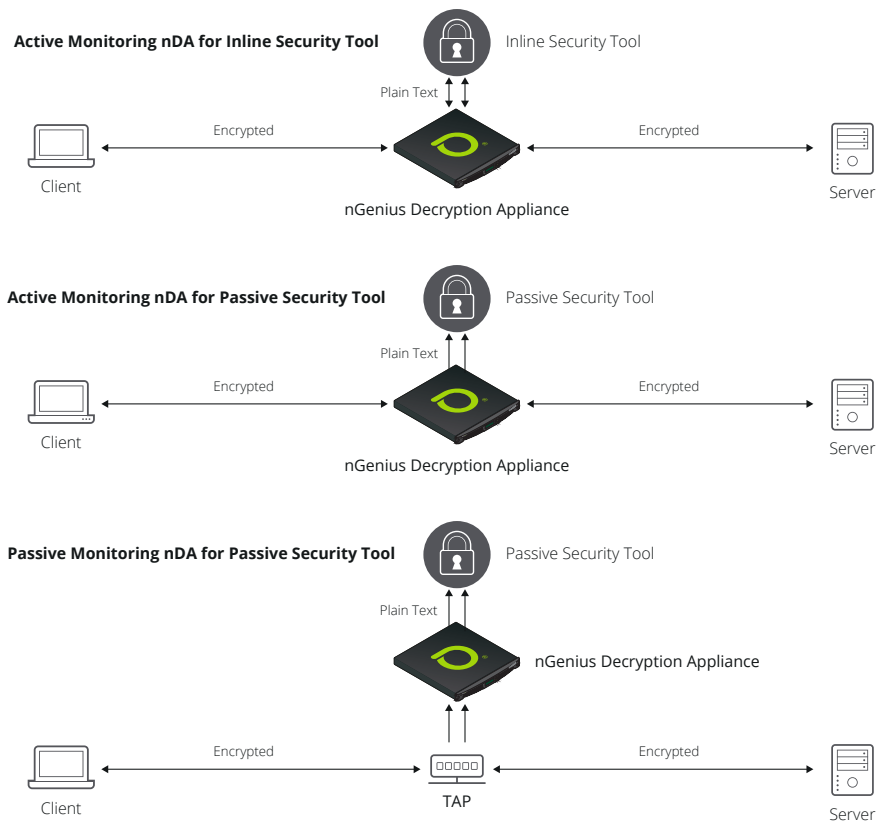


Figure 1: nGenius Decryption Appliance deployed with passive and active security tools.



- nDA-2725 | 4-Port 1/10 GbE SFP/SFP+
- nDA-4835 | 8-Port 1/10 GbE SFP/SFP+



## Feature Highlights

Feature	Benefit
Content based SSL detection (TCP port independent)	Supports arbitrary protocols on SSL/TLS (e.g., SMTP / POP3 with STARTTLS, SIPS, FTPS, chat protocols)
Re-signs CA/self-signed certificates, and imports known server keys	Compatibility with own servers and Internet/third party servers
Leverages acceleration hardware and SSL stack purpose-designed for in-line and passive decryption	Lower latency and resource usage
Supports latest TLS + SSH versions and encryption algorithms	Excellent compatibility and investment protection
Verifies server certificates	No reduction in security
Detailed session log and statistics	Insight into SSL usage
Decryption policy rule system	Option to exempt traffic/users from decryption Decrypted traffic port translation (or mapping) for applications with known server keys
Deployment Modes	Inline (transparent) and passive network TAP Inline and passive attached tools Tool chaining with nGenius PFS
Media	1G/10G (SFP/SFP+) 1G/10G/40G/100G with nGenius PFS
Management Interface	Management via CLI and Web UI Syslog, SNMPv2/v3 and NTP
Policy Engine	Rules configured using management interface or APIs Rules match packet (5-tuple / VLAN) and SSL (certificate and message) fields Actions invoked by rules include drop, reject (TCP RST), decrypt, and bypass (cut through without decryption)
SSL / TLS Versions	SSL 3, TLS 1.0, TLS 1.1, TLS 1.2, TLS 1.3
Symmetric Algorithms	AES-CBC, AES-GCM, ChaCha20-Poly1305, DES, 3DES, RC4, CAMELLIA
Hashing Algorithms	SHA1, SHA2 (224/256/384/512), MD5
Asymmetric Algorithms	RSA, DSA, DH, DHE, ECDHE (NIST, 25519 and 448 curves)
Key Sizes	AES: 128/256-bit, RSA: up to 8K-bit, EC: up to 521-bit
SSH Versions	SSHv2
SSH Inspection Details	Password authentication, multiple channels (port forwarding / file transfers)

## Ordering Information

SKU	Description
D-02725-XSJA1	Certified nGenius Decryption Appliance, 4-port 1G/10G (SFP/SFP+), 1U, Single Intel 6152 22-Core 2.1GHz CPU, 96GB Ram, 32TB (4x 8TB), AC Power
D-04835-XSJA2	Certified nGenius Decryption Appliance, 8-port 1G/10G (SFP/SFP+), 1U, Dual Intel 6152 22-core 2.1GHz CPUs, 192GB RAM, 32TB (4x 8TB), AC Power
D-02725-XSJD1	Certified nGenius Decryption Appliance, 4-port 1G/10G (SFP/SFP+), 1U, Single Intel 6152 22-Core 2.1GHz CPU, 96GB Ram, 32TB (4x 8TB), DC Power
D-04835-XSJD2	Certified nGenius Decryption Appliance, 8-port 1G/10G (SFP/SFP+), 1U, Dual Intel 6152 22-core 2.1GHz CPUs, 192GB RAM, 32TB (4x 8TB), DC Power
D-02725-L0S-1	Certified nGenius Decryption Appliance Software 10G license for use with D-02725 certified appliance hardware
D-02725-00S-1	Certified nGenius Decryption Appliance Software 20G license for use with D-02725 certified appliance hardware
D-04835-00S-1	Certified nGenius Decryption Appliance Software 40G license for use with D-04835 certified appliance hardware
D-02725-U0S-1	Certified nGenius Decryption Appliance Software - 10G Add-On License for D-02725-L0S-1 software

## SPECIFICATIONS

Characteristic	D-02725-XSJA1 & D-02725-XSJD1	D-04835-XSJA2 & D-04835-XSJD2
<b>Network Ports</b>	2-Port 1/10 GbE SFP/SFP+	4-Port 1/10 GbE SFP/SFP+
<b>Monitoring Ports</b>	2-Port 10 GbE SPF+	4-Port 10 GbE SPF+
<b>Management Port</b>	2 RJ-45 1/10GBASE-T 1 IPMI 1000BASE-T	2 RJ-45 1/10GBASE-T 1 IPMI 1000BASE-T
<b>CPU</b>	Single 22-core	Dual 22-core
<b>Memory</b>	96GB	192GB
<b>Storage</b>	4x 8TB HDDs in RAID 5	4x 8TB HDDs in RAID 5
<b>Embedded OS</b>	Solid State Drive (SSD) dedicated to Linux® OS	
<b>Rack Unit</b>	1 Rack Unit (1RU)	
<b>Dimensions</b>	1.7 in (43 mm) Height 17.2 in (437 mm) Width 25.6 in (650 mm) Depth	
<b>Weight</b>	38 lbs. (17.24 kg)	40 lbs. (18.2 kg)
<b>Mounts</b>	Rack mount side rails included	
<b>Power Rating (AC)</b>	700W/750W hot swappable, redundant, auto-ranging 700W: 100-140 VAC, 50-60 Hz, 8.0-6.0 Amp 750W: 200-240 VAC, 50-60 Hz, 4.5-3.8 Amp	
<b>Maximum Consumption (AC)</b>	100V, 3.9A, 400W, 1365 BTU/Hr	
<b>Heat Dissipation (AC)</b>	1999 BTU/hr	
<b>Power Rating (DC)</b>	1+1 hot-swappable, redundant -48VDC, 650W, 20A (x2)	
<b>Maximum Consumption (DC)</b>	12A, 581W	
<b>Heat Dissipation (DC)</b>	1982 BTU/hr	
<b>Vibration</b>	0.25G from 5-200Hz for 15 minutes	
<b>Operating Temperature</b>	41° to 95°F (5° to 35°C)	
<b>Operating Humidity</b>	8% - 90% (non-condensing)	
<b>Altitude</b>	-50 to 10,000 ft (-16 to 3,048 m)	
<b>Mechanical Shock</b>	1 shock pulse up to 20G for up to 2.5 ms	
<b>Regulatory Approvals</b>	Regulatory Model Number: NV51U, FCC Part 15 Class A, CE Mark (EN55032 Class A, EN 55024, EN 61000-3-2, EN 61000-3-3), VCCI (Japan) Class A, RRA (Korea) KC Cert #: R-R-NSZ-NV51U, CCC Class A (China), EAC (Russia), BIS (India), UL- C of C (Mexico), CM (Morocco), BSMI (Taiwan), LoA (South Africa), UL 60950-1/62368-1, CAN/CSA C22.2 No. 60950/62368-1, IEC 60950-1/62368-1, EN 60950-1/62368-1, CB Report	

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