



DATASHEET



COSGrid NGFW-NFRXG

COSGrid NGFW - NFRXG utilizes AI-driven security and advanced machine learning to provide comprehensive Threat Protection across all levels. With COSGrid NGFW - NFRXG, Organistaions can gain enhanced insight into their network infrastructure and identify potential threats posed by applications, users, and devices before they materialize.





COSGrid NGFW- NFRXG-E

HIGHLIGHTS



Zero Trust and cloud-based web gateway



Seamless Protection &
Performance enabled by High
Performance Appliance



Behaviour based Anomaly
Detection using COSGrid
NetShield NDR



Best in Protection through Proofpoint ETPro subscription or equivalent for IDS/IPS signatures



Single Management Console for managing multiple NG Firewall with Consolidated analytics



Adaptive Policy & Rules tuning for seamless operations with Hi-touch support

IPS

NGFW Throughput

Threat Protection

Interfaces

800 Mbps

600 Mbps

175 Mbps

2 x DDR3 UDIMM slots, up to 32GB 7 x 1GbE RJ-45, 2 x SFP+, or 5 x 1GbE RJ-45 slots

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COSGrid NGFW-NFRXG FEATURES

Secure Zero Trust Remote Access

- SSL and IPSec VPN support
- Site-to-Site IPSec VPN (with Dynamic Routing)
- Two-Factor authentication- 2FA support (e.g. Secure Token)
- High performance VPN concentrator solution
- RADIUS/Active-Directory integration (Optional)
- Granular network access policies

Intrusion Detection & Prevention

- Detect and block network borne attacks
- Protect mail, web and remote-access servers from attacks (IIS, Exchange, Citrix)
- Protect staff and internal systems from application level attacks (e.g. Office, Adobe Acrobat)
- Common web platform protection (e.g. .NET, PHP, WordPress, CRM)
- Customizable rule-set and signatures
- Subscription to URL reputation and categories
 Open-source Threat intel to augment

Networking

- IP address assignment Static (DHCP, PPPoE, L2TP
- and PPTP client), Internal DHCP server, DHCP relay
- Networking Protocol -DHCP, DNS,Fast Ethernet,
- Gigabit Ethernet,IPSec
- Transport- DHCP, DNS, IPSec, L2TP, PPPoE
- Protocol Standards TCP/IP, UDP, ICMP, HTTP, HTTPS,
- IPSec, ISAKMP/IKE, SNMP, DHCP, PPPoE, L2TP, PPTP,
- RADIUS, IEEE 802.3"

Performance

- Hyperscan: Fast Multi-pattern Regex Matcher
- 8 to 16 Core Multi-threaded performance
- without blocking users

Web Filtering

- URL filtering, Proxy avoidance, DNS filtering
- Control access to websites and website categories
 (e.g. business, news, sports, social media)
- Integrate into Active Directory, applying policies to specific users or user groups.
- Block access to malicious content or websites
- Enforce Safe Search
- Full SSL Inspection support
- Transparent solution (or explicit proxy support)

Application Control & Visiblity

- Control and monitor cloud application usage (e.g.
 Dropbox, Box, Google Apps)
- Full network visibility of HTTP and HTTPS traffic Control access to specific applications (e.g. Web Games, Video Streaming)
- Block or control access to Cloud services.
- Detailed web access reports (by user, group, website)
- Detailed reporting and network visibility

Intelligent Routing

- Routing (BGP, OSPF, RIPv1/v2, static routes, policy-based routing)
- Dynamic routing (RIP/OSPF/BGP)
- Policy-based routing (ToS/metric and ECMP)
- 802.10 VLAN and Layer2 switching support
- Rich traffic/shaping QOS support
- Dynamic routing over VPN (e.g. OSPF) groups
- Inbound/outbound load balancing
- Asymmetric routing

Security

- Stateful packet inspection
- Reassembly-Free Deep Packet Inspection
- DDoS attack protection (UDP/ICMP/SYN flood)
- IPv4/IPv6 support

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Compliance and Regulatory Features

- Features that assist in complying with data protection regulations (e.g., GDPR, FERPA).
- Customizable policies to meet local or regional regulatory requirements.

ISP Management

- Support for multiple ISPs to ensure redundancy and failover capabilities.
- Load balancing across multiple ISP connections for efficient utilization of bandwidth and improved network reliability.
- Configuration options for managing ISP failovers and selecting the primary ISP for specific types of traffic.

Bandwidth Management

- Traffic shaping and Quality of Service (QoS) controls to prioritize and allocate bandwidth based on specific needs.
- Bandwidth monitoring tools to track and analyze network usage patterns.
- Bandwidth quotas or limits for users or groups to prevent excessive usage and ensure fair distribution of resources.
- Dynamic bandwidth allocation based on user roles,
 application types, or time of day.

High availablity & Redundancy

- High availability-Active/Standby with state sync
- L2 bridge, wire/virtual wire mode, tap mode, NAT mode
- A/P high availability with state sync
- Redundancy features to minimize downtime in case of hardware or software failures.

Ease of Management

- User-friendly web-based interface for easy configuration and management.
- User-friendly graphical user interface (GUI) that supports multiple administrators with varying levels of access.
- Command Line Interface (CLI) through consoleport, telnet SNMPvl/v2c/v3 | System Log
- Role-based access control within the GUI to ensure that different administrators have access only to the features and settings relevant to their responsibilities..
- Customizable dashboards for quick insights into network health, security status, and other key metrics.
- WAN management interfaces for remote configuration and monitoring.

User Authentication

- LDAP (multiple domains), XAUTH/RADIUS, SSO,
 Novell, internal user database, Terminal
 Services, Citrix, Common Access Card (CAC)
- User-specific policies and access controls based on roles (students, teachers, administrators).

Logging and Reporting

- Comprehensive logging of network activities for auditing purposes by IP & MAC addresses.
- Customizable reporting tools to generate reports on network usage, security incidents, etc.

Support

An active and supportive open-source community for ongoing development, bug fixes, and community -driven support.

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COSGrid NGFW-NFRXG SPECIFICATIONS

NFRXG Technical Functions

Content Filtering	- Web content filtering to block inappropriate or distracting websites.	
	- Customizable filtering rules to meet educational requirements.	
Application Control	- Ability to control and monitor applications and services (e.g., social media, gaming) to ensure a	
	productive learning environment.	
	- Peer-to-peer application control.	
	- VPN & other application control like- Windows update, play store, App store.	
Intrusion Detection and Prevention	- Real-time monitoring for malicious activities and immediate response mechanisms.	
	- Signature-based and behavior-based intrusion detection.	
System (IDPS)	- Traffic Shaping and Quality of Service (QoS)	
	- Prioritization of network traffic to ensure critical applications receive the necessary bandwidth.	
	- Bandwidth management to prevent network congestion.	

System Performance

Firewall throughput	4000 Mbps
Firewall IMIX	2400 Mbps
IPS throughput	800 Mbps
NGFW Throughput	600 Mbps
Threat Protection throughput	175 Mbps
Concurrent connections	1040000

NFRXG-E Hardware Appliance



- Intel® Atom™ C2558 processor, 2.4GHz, 4GB RAM
- 2 x DDR3 UDIMM slots, up to 32GB
- 7 x 1GbE RJ-45,
- 2 x SFP+, or 5 x 1GbE RJ-45 slots

NFRXG GUI / WEB INTERFACE









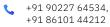
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COSGrid Networks, a leading SASE company, offers advanced cybersecurity solutions to product users, data, applications, and workloads. With our AI / Big data ML based Cybersecurity solutions, organizations can stay ahead of attackers and safeguard their digital assets, ensuring secure access, reliable connectivity with 4G/5G, and protection to both on prem and cloud across various locations and applications.