

SET YOUR NETWORK FREE

The Ultimate Packet Processing Software Solution



DATA SHEET

Traditional performance, service, and management flexibility barriers
— shattered with Netgate TNSR.

Secure networking applications from 1 Gbps to 100+ Gbps - at a
fraction of the price of proprietary alternatives.

TNSR Freedoms

FREEDOM TO SCALE PERFORMANCE

1 Gbps, 10 Gbps, 25 Gbps, 40 Gbps, 100 Gbps, or more. Small packets. Large packets. Fully encrypted traffic. Tens, hundreds or thousands of sessions.

FREEDOM TO DEPLOY AS YOU EVOLVE

Every modern organization is in some state of transition to virtualization and/or cloud migration. Whether your secure networking requirements are premises, cloud, hybrid, or native cloud, TNSR can be deployed as you need.

FREEDOM TO SCALE MANAGEMENT

Managing networking and security functions is complex. Each organization has a preferred approach that best meets their needs. CLI or API-based orchestration across tens, hundreds, or thousands of instances - controlled from within your existing or planned management infrastructure.

FREEDOM TO ADAPT SERVICES

From routing to network firewalls, to advanced packet monitoring, inspection, and policy enforcement - get the freedom to easily insert new secure networking functions - without expensive software upgrades or complex licensing schemas. No limits.



TNSR provides router, vpn, and firewall networking functions. Designed for enterprise and service provider networking, TNSR is the right choice for applications where cost and throughput requirements are paramount.

See what features allow TNSR to set your network free.

Powerful. Flexible. Fully-Equipped.

Features

TNSR
1, 5, 10, 25, 50, 100 Gbps
and beyond Throughput

High-Speed Data Plane

Based on DPDK and VPP



Routing

Static Routing, BGP, IPv4/IPv6 dual stack, OSPF, ECMP, Static ARP, BFD, VRF-Lite



Firewall

L2 MAC/IP ACLs, L3 ACLs, L4 ACLs



VPN

Routed IPsec site-to-site



High Availability

VRRP



Operating System

CentOS Linux



Link Management

LLDP, LACP



Interfaces and Tunneling

802.1q, 802.1ad VLAN (QinQ), VXLAN, Bridging, Tap, Loopback, LAG, GRE, SPAN/ERSPAN, memif



NAT

Port Forwards, 1:1 NAT, Outbound NAT, NPT, NAT44



Carrier Grade NAT

MAP-T/MAP-E, DS-Lite, Deterministic NAT



Access Control

RBAC, NETCONF Access Control Model (NACM)



Encryption

IPsec, Pre-shared Key, MAC algorithms: MD5, SHA-1, SHA-256, SHA-384, SHA-512, 3DES, AES-128-CBC, AES-192-CBC, AES-256-CBC, AES-ICV16-GCM-128, AES-ICV16-GCM-192, AES-ICV16-GCM-256, DH Groups 1-24, Group 31, ike-v1, ike-v2



Integrated Services

DHCP Client/Server



DNS Resolver



NTP Server



System Management

(based on Yang data model)

CLI



RESTCONF API



SNMP



Availability

Installer for bare metal or VM



Netgate SG-5100



Netgate XG-1537



Netgate XG-1541



Amazon Web Services



Microsoft Azure

