OPOsense[®]

OPNsense® Rack Security Appliance

DEC4200 Series

DEC4200 SERIES

FIREWALL

Threat Protection

sense

SIMPLY THE BEST.

000ge

Storage

Rack mountable appliance, the full package at an affordable price. Exceptional performance for datacenters & enterprises.



60Gbps Throughput 5 Mega Packets per Second



~7.5Gbps **Inline Intrusion Prevention**



Fast Filtering Up to 50.000 Connections per Second



1:A:A A:A:

6 DDR4 RAM DUA

POWER SUPPLY

1TB SSD Offering Sufficient Space for Logging & Reporting

Captive Portal with Voucher

Guard Web Access

support

Filtering (SSL) Proxy

n



System wide two-factor authentication. **Compatible with Google** Authenticator.



Hardware Assisted Encryption 2.5Gbps IPsec (AES256GCM16)



Dual Power Supply Failover & Load balancing

Securing Networks™



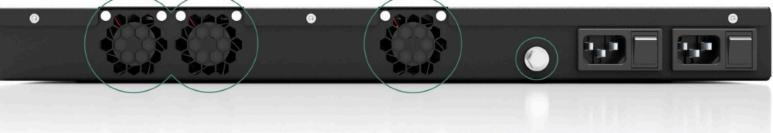
BEC4200 Series - Datacenter & Enterprise Edition SETTING THE NEW STANDARD



LOW POWER & LOW NOISE FANS ONLY 12.5dB(A) EACH OPTIMIZED FAN OUTLET WITH HONEYCOMB PATTERN TOTAL SYSTEM NOISE LESS THAN 42dB(A)



SEPERATE GROUND/EARTH SCREW ELIMINATE FLOATING GROUND & OPTIMIZE ESD RESILIANCE





DUAL POWER SUPPLY WITH AUTOMATIC FAILOVER TYPICAL EFFICIENCY 93% MTBF OVER 2000K HOURS / OVER 200 YEARS (Telcordia SR-332)

DUAL POWER SUPPLY	SUFFICIENT STORAGE & RAM				
Integrated <u>non-interrupted</u> automatic failover High quality 93% Efficient Power Supplies with MTBF of 2472K hrs Telcordia TR/SR-332(Bellcore)	One terabyte of integrated storage for logging and advanced features				
(that is over 200 years!).	Sufficient memory for most demanding features and plugins like Zenarmor (for 2000+ connected devices)				
POWERFUL DUAL DIE 16 CORE SOC*	NETWORK CONNECTIVITY				
The fastest EPYC 3000 cpu available for the most demanding Network loads.	A maximum of twelve network ports. Connect the way you want: four SFP28 ports (25Gbps) DEC4280 only, four SFP+ ports (10Gbps)				
*Maximum specification / DEC4280.	and four RJ45 Ethernet ports (2.5 Gbps)				

LOW NOISE COOLING

The DEC4200 Series comes with a new cooling design that utilises low noise fans with specially designed heatsinks and air-ducts. Not only does this lower the produced noise to a level below 42dB(A), it also minimises overall power consumption.

Securing Networks™

CERTIFIED HARDWARE FROM THE DEVELOPERS

CERTIFIED HARDWARE FROM THE DEVELOPERS - MADE IN THE NETHERLANDS

DEC4200 Series

Enterprise & Datacenter Edition





Bundled with a free year OPNsense® Business Edition A 5-STAR EXPERIENCE

- \star Commercial firmware repository
- ★ Official OPNsense Open Virtualisation Image
- ★ Integrated GeoIP database
- ★ Free E-Book (English & German)
- ★ Free professional plugins:
 - Web Application Firewall
 - Proxy Access
 - Extended Blocklist
 - OPNcentral[™]

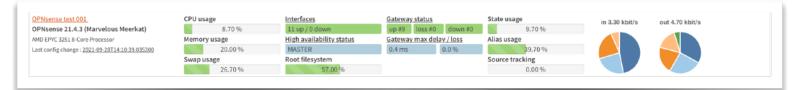
OPNcentral[™]

Central Management, the OPNsense® way

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Management: Host configu	ration							
Houte Consent settings Backup								
House commence secondly concretely								
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	Description	Url	Backupsi	Size				
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0 27 0 0	OPNsense-test-central002	https://OPNsense-test-central0	13	1.31 MB	2023-03-06T20:55:29+01:00		1	0.8
08 •	OPNsense-test-central003	https://OPNsense-test-central0	13	1.16 MB	2023-03-06T20:55:40+01:00			0.0
0 er 🔸	OPNsense-test-central004	https://OPNsense-test-central0	13	1.15 MB	2023-03-06720:55:49+01:00		. /	0.8
	OPNsense-test-central005	https://OPNsense-test-central0	13	1.16 MB	2023-03-06T20:55:57+01:00		1	0.8
A A A A					20	owing 1	to 5 of	s entries
OPNsense (c) 2014-2023 Deciso 8.V.								
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INCLUDES

- Provisioning
- Multi tenancy using host groups
- Centralised Backups
- Centralised Firmware Upgrades
- Monitoring
 - Machine state
 - Firmware version
 - Resources



PSense

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Services Alias (click to viza/hdit)												
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۵												
Help												

OPNsense® Secure Your Network With Ease™

OPNsense is Deciso's fast growing open source firewall and security platform released under an Open Source Initiative approved license. Its rich feature set is combined with the benefits of open and verifiable sources.

All features can be used from within the easy to use graphical interface, equipped with a build-in search feature for quick navigation. Protecting your network has never been this easy with features such as; the integrated intrusion prevention system and two-factor authentication for safely connecting mobile users.



Businesses Protect your

Protect your business network and secure your connections. From the stateful inspection firewall to the inline intrusion detection & prevention system everything is included for free.Use the traffic shaper to enhance network performance.



Schools

Limit and share available bandwidth evenly amongst students and utilise the category based web filtering to filter unwanted traffic such as adult content and malicious websites. It is easy to setup as no additional plugins nor packages are required.



Hotels

OPNsense offers a captive portal to control guest internet access for a limited duration. Vouchers can easily be created via the graphical user interface.



On the road

Even on the road OPNsense is a great asset to your business as it offers OpenVPN and IPSec VPN solution with road warrior support and two-factor authentication. The easy client exporter make configuring your OpenVPN SSL client setup a breeze.



Remote Offices / Branches & SOHO

The integrated site to site VPN (IPsec or SSL VPN) can be used to create a secure network connection to and from your remote offices. Enjoy the easy configuration and online searchable documentation with simple how-to type of articles to get you started, quickly. Pluggable support is offered for ZeroTier, Tinc as well as Wireguard.

PPSense • GUI

Stateful firewall

· Destination

OS (OSFP)

a per rule base

Policy Based Routing

Packet Normalisation

Policy organization

· IP addresses

Interface Groups

rules

Rule Category

Port ranges

router mode

Alias Support

Limit simultaneous connections on

Log matching traffic on a per rule

Option to disable filter for pure

Domain names (FQDN)

· Easy access rule sets

Granular control state table

Adjustable state table size

· Limit simultaneous client

· Limit new connections per

Define state timeoutDefine state type

On a per rule bases

connectionLimit states per host

second

State types

Modulate

Synproxy

Optimisation options

KeepSloppy

None

Normal

· High latency

Conservative

External Servers

Integrated Servers

Local User Manager

· FreeRadius (Plugin)

· Local User Manager

FreeRadius (Plugin & External)

Vouchers / Tickets

· Agressive

Authentication

LDAP

Radius

Authorization

Accounting

• Proxy

• VPN

• User Interface

• Vouchers / Tickets

Supports TOTP

2-Factor Authentication

Google Authenticator

Supported services:
 Captive Portal

· Create security zones with equal

Filter by

• Port

bases

· Source

Protocol

SSH / Console

- Certificates
- Certificate Authority
 - Create or Import CA's
 - Create or Import Certificates

SOFTWARE

FEATURE OVERVIEW

Integrated rulesets

SSL Blacklists

· Feodo Tracker

SSL Fingerprinting

configurable cron

Typical Applications

Guest Network

Multiple Zones

Voucher Manager

Authenticators

Captive Portal

Auto rule update using

(For updated information on current release see docs.opnsense.org)

· Emerging Threats ETOpen

Bring Your Own Device (BYOD)

· Hotel & Camping Wifi Access

Template Management

All available authenticators

None (Splash Screen Only)

Multiple Voucher Databases

· Export vouchers to CSV

Timeouts & Welcome Back

MAC and IP whitelisting

· Live top IP bandwidth usage

Bandwidth Management

Use Traffic Shaper

Real Time Reporting

· Active Sessions

Virtual Private Networks

Portal bypass

· Time left

Rest API

Site to Site

Site to Site

· Site to Site

exporter

Tinc (Plugin)

· Road Warrior

· Full mesh routing

· VPN, SDN & SD-WAN

Automatic hardware failover

Configuration synchronisation

SSL Domain only (easy filtering)

Synchronized state table

ZeroTier (Plugin)

High Availability

Caching Proxy

Multi interface

Blacklists

Reverse Proxy

Backup & Restore

History & Diff support

Transparent ModeSupport SSL Bump

Access Control Lists

Traffic Management

Category Based Web-filter

• Auto sync for remote blacklists

External engine support (ICAP)

Virus scanning (via plugins)

ClamAV (Plugin / C-ICAP)

Online Identity Protection

ICAP (supports virus scan engine)

HAProxy - Load balancer (Plugin)

Tor - Anonymity online (Plugin)

· Easy client configuration

OpenVPN

Road Warrior

Road Warrior

WireGuard (Plugin)

IPsec

- Let's Encrypt (Plugin)
- Automated (Trusted) CA
- 802.1Q VLAN support
- ⊚ max 4096 VLAN's

Link Aggregation & Failover

- Failover
- Load Balance
- Round Robin
- Gisco Ether Channel (FEC)
 General Channel (FEC)
 Genera
- 802.3ad LACP
- Other Interface types
- Bridged interfaces
- Generic Routing Encapsulation
- Network Address Translation
- Port forwarding
- 1:1 of ip's & subnets
 Outbound NAT
- Outbound NAT
 NAT Reflection
- Traffic Shaping
- Limit bandwidth
- Share bandwidth
- Prioritize traffic
- Rule based matching
- Protocol
- Source
- Destination
- Port
 - Direction
 - IGMP Proxy
 - For multicast routing
 - **Universal Plug & Play**
 - Fully supported
 - Dynamic DNS
 - Selectable form a list
 - Custom
 - RFC 2136 support
 - **DNS Forwarder**
 - Host Overrides
 - Domain Overrides
 - DNS Server
 - Host Overrides
 - A records
 - MX records
 - Access Lists
 - DNS Filter
 - Supports OpenDNS
 - **DHCP Server**
 - IPv4 & IPv6
 - Relay Support
 - BOOTP options

 - Multi WAN
 - Load balancing
 - Failover
 - Aliases
 - Load Balancer
 - Balance incoming traffic over multiple servers
 - Network Time Server
 - Hardware devices
 GPS
 - GF5

- Pulse Per Second
 Intrusion Detection & Prevention
 Indiae Drevention
- Inline Prevention

Deciso Sales B.V. • +31 187 744 020 • sales@deciso.com • www.deciso.com

- File Backup
 - Cloud Backup
 - Git Backup
 - SNMP
 - Monitor & Traps
 Diagnostics
 - Filter reload status
 - Firewall Info (pfInfo)
 - Top Users (pfTop)
 - Firewall Tables
 - Aliases
 - Bogons
 - Ourrent Open Sockets
 - Show All States
 - State Reset
 - State Summary
 - Wake on LAN
 - ARP Table
 - DNS Lookup
 - NDP Table
 - e Ping
 - Packet Capture
 - Test Port
 - Trace route

Monitoring

- Zabbix Agent (Plugin)
- Monit (Plugin)

Proactive System Monitoring

Enhanced Reporting

· CVS Exporter

System Health

· Exportable

Netflow Exporter

• Easy Upgrade

upgrades

· OpenSSL

LibreSSL

Audit Feature

Plugin Support

Online Documentation

Free & Searchable

ACL support

REST API

Local for 'Insight'

Support Virtual Installs

SSL Flavour selectable

Selectable Package Mirror

Lock Package (prevents upgrade)

Check installed packages for

known security vulnerabilities

Securing Networks™

Reinstall Single Package

Traffic Graph

Firmware

- Network Flow Analyzer 'Insight'
- Fully Integrated

· Round Robin Data

Selection & Zoom

Live Traffic Monitoring
 Network Monitoring

Version 5 & version 9

VMware tools (Plugin)

· Xen Guest Utilities (Plugin)

Reboot warning for base

- · Detailed Aggregation
- Graphical RepresentationClickable and Searchable

FULL SPECIFICATIONS AND MODEL COMPARISON





DEC4280

Edition Edition Edition Breward Spacellications Edition Edition SFP+ Ports [10G/Dbg] / SFP28 Ports [25Gbpa] 4.0 4.44 GBE R48 Ports [100/1000/2500Mbps] 4 4 UBS 3.0 Ports 1 1 Console Port 1 1 Internal Storage 1TB M.2. Solid State Flash TTB M.2. Solid State Flash Memory 666 BDP44 646B DDP4 CPU Cores 8 (max frequency 3.1Ghz) 16 (max frequency 3.1Ghz) Virtual Interdiace (802.1q VLANS)1 4093 4093 System Performance Frewail Protects Protecond 7670Kpps Frewail Protects Protecond 7670Kpps 50000Kpps Frewail Port Lever Second 50000 63000000 New Connections Per Second 50000 50000 Frewail Policies (Recommended Maximun)1 10000 s 10000 s Frewail Policies (Recommended Maximun)1 10000 s 1000 s Protec VPT Throughput (AES256GCM16) 2.5Ghps 2.5Ghps Protec VPT Throughput Packet Per Second 2.1Kpps 2.6Ghps			
Liense Open Source + 1 year free Business Edition Open Source - 1 year free Business Edition Hardvare Specifications Edition Edition SPR- Ports [10Gbpa] / SP28 Ports [GGbps] 4.0 4/4 Open Source + 1 year free Business Edition 4/4 4 USB 3.0 Ports 1 1 1 Console Port 1 1 1 Internal Storage 1TB M.2. Solid State Flash 1TB M.2. Solid State Flash 1TB M.2. Solid State Flash Console Port 1 4083 4093 4093 System Partomance Frewall Trologyput 21. Gbps 60Gpbs 60Gpbs Frewall Port to Port Throughput 21. Gbps 60Gpbs 60Gpbs Frewall Port to Port Throughput 9Gbps 21Gpbs 21Gpbs Concurrent Sessions 6000000 50000 50000 Frewall Port to Port Throughput 25Gbps 25Gbps 25Gbps Frewall Port to Second (Assignmun) 100us 100us 100us Frewall Port to Second (Assignmun) 25Gbps 25Gbps 25Gbps <t< td=""><td>Software</td><td></td><td></td></t<>	Software		
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CPU Cores8 (max frequency 3.1Ghz)16 (max frequency 3.1Ghz)Virtual Interfaces (802.1q VLANS)140934093System Performance600Gpbs600GpbsFirewall Throughput21.1Gbps600GpbsFirewall Port Backets Per Second1760Kpps50000KppsFirewall Port Throughput600000063000000New Connections Per Second5000050000Firewall Policies (Recommended Maximum)11000010000Piece VPN Throughput (AES256GCM16)2.20Kpps2.25OpsPiece VPN Throughput (AES256GCM16)2.20Kpps2.25OpsPiece VPN Throughput (AES256GCM16)2.20Kpps625KppsThreat Protection Throughput Packet Per Second2.21Kpps625KppsThreat Protection Throughput Packet Per Second2.21Kpps625KppsThreat Protection Throughput Packet Per Second2.20Kpps625KppsThreat Protection Throughput Packet Per Second2.20Kpps625KppsThreat Protection Throughput Packet Per Second2.20Kpps625KppsThreat Protection Throughput-4.5 Sqpbs-7.5 CbpsHeight X Width X Depth (mm)43.8 (1U) x48.2 (19" x 302 (274 excl. mounthandle)1.33 x 19 x 11.9 (10.8 excl. panel)Pointerion19" Rackmountable19" RackmountablePower Requirements100-240VAC, 50-60Hz100-240VAC, 50-60HzPower Requirements100-240VAC, 50-60Hz60WPower Requirements100-240VAC, 50-60Hz60WPower Requirements100-240VAC, 50-60Hz60WPower Requirements100-	Internal Storage	1TB M.2. Solid State Flash	1TB M.2. Solid State Flash
Virtual Interfaces (802.1q VLANS)140934093System PerformanceFirewall Rackets Per Second1760Kpps5000KppsFirewall Rackets Per Second1760Kpps21GpbsConcurrent Sessions6300000063000000New Connections Per Second5000050000Firewall Rackets Rer Second100us100usFirewall Rackets Rer Second5000050000New Connections Per Second5000050000Piece VPN Packet Rer Second (AES256GCM16)2.5Gbps2.5GbpsPiece VPN Packet Per Second (AES256GCM16)220Kpps220KppsThreat Protection Throughput Packet Per Second291Kpps625KppsThreat Protection Throughput-3.5Gpbs-7.5GbpsHigh Availability with State SynchronisationRequires TwoRequires TwoDimensions1.73 x 19 x 11.9 (10.8 excl. panel)1.73 x 19 x 11.9 (10.8 excl. panel)Form Factor19" Rackmountable19" RackmountableWeight K Width x Length (inches)1.73 x 19 x 11.9 (10.8 excl. panel)Form Factor19" Rackmountable19" RackmountableWeight (appliance only)2.6A2.6APower Requirements100-240VAC, 50-60Hz100-240VAC, 50-60HzMaximu Current (single PSU)55W80WHead Displation187.6 BTUhr27.8 BTUhrOperating Temperature0 to +45°C0 to +45°CStorage Temperature-20 to +70°C-20 to +70°CHeight X Width x Length (indice)187.6 BTUhr27.8 BTUhrOperating T	Memory	64GB DDR4	64GB DDR4
System Performance 21.1Gbps 60Gpbs Firewall Throughput 21.1Gbps 60Gpbs Firewall Packets Per Second 1760Kpps 5000Kpps Firewall Packets Per Second 96bps 21Gpbs Concurrent Sessions 63000000 63000000 New Connections Per Second 50000 50000 Firewall Policies (Recommended Maximum)1 100us 100us Firewall Policies (Recommended Maximum)1 10000 10000 Pisee VPN Throughput (AES256GCM16) 2.5Gpps 2.5Gpps Pisee VPN Packet Per Second (ES256GCM16) 220Kpps 220Kpps Threat Protection Throughput Packet Per Second 291Kpps 625Kpps Threat Protection Throughput Packet Per Second 291Kpps 625Kpps Threat Protection Throughput 7.5Gbps 201Kpps Pight x With x Length (inches) 1.73 x 19 x 11.9 (10.8 excl. panel) 1.73 x 19 x 11.9 (10.8 excl. panel) Point Factor 10°-240VAC, 50-60Hz 10°-240VAC, 50-60Hz 10°-240VAC, 50-60Hz Form Factor 10°-240VAC, 50-60Hz 10°-240VAC, 50-60Hz 2.6A Power Requirements 10°-240VAC, 50-60Hz 2.6A 2.6A <td>CPU Cores</td> <td>8 (max frequency 3.1Ghz)</td> <td>16 (max frequency 3.1Ghz)</td>	CPU Cores	8 (max frequency 3.1Ghz)	16 (max frequency 3.1Ghz)
Firewall Throughput 21.1Gbps 60Gpbs Firewall Packets Per Second 1760Kpps 5000Kpps Firewall Port to Port Throughput 9Gbps 21Gpbs Concurrent Sessions 63000000 6300000 New Connections Per Second 50000 50000 Firewall Entry (average) 100us 010us Firewall Policies (Recommended Maximum)1 10000 10000 Pisee VPN Throughput (AES256GCM16) 2.5Gbps 2.5Gbps Pisee VPN Packet Per Second (AES256GCM16) 2.20Kpps 2.20Kpps Threat Protection Throughput Packet Per Second (AES256GCM16) 2.20Kpps 2.20Kpps Threat Protection Throughput Packet Per Second 2.8Gpbs .7.5Gbps Threat Protection Throughput Packet Per Second 2.8(10) x 482.6 (19') x 302 (274 excl. mount/handle) 43.8 (10) x 482.6 (19') x 302 (274 excl. mount/handle) Pight x Width x Depth (mm) 43.8 (10) x 482.6 (19') x 302 (274 excl. mount/handle) 1.73 x 19 x 11.9 (10.8 excl. panel) Height x Width x Depth (mm) 43.8 (10) x 482.6 (19') x 302 (274 excl. mount/handle) 1.73 x 19 x 11.9 (10.8 excl. panel) Height x Width x Length (inches) 1.73 x 19 x 11.9 (10.8 excl. panel)	Virtual Interfaces (802.1q VLANS)1	4093	4093
Firewall Packets Per Second 1760Kpps 5000Kpps Firewall Port to Port Throughput 9Gbps 21Gpbs Concurrent Sessions 63000000 63000000 New Connections Per Second 50000 50000 Firewall Latency (average) 100us 100us Firewall Policies (Recommended Maximum)1 10000 10000 Pisec VPN Throughput (AES256GCM16) 2.5Gbps 2.5Gbps Pisec VPN Packet Per Second (AES256GCM16) 2.20Kpps 2.20Kpps Threat Protection Throughput (AES256GCM16) 2.20Kpps 7.5Gbps Threat Protection Throughput Packet Per Second 291Kpps 625Kpps Threat Protection Throughput ~3.5Gpbs ~7.5Gbps High Availability with State Synchronisation Requires Two 43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle) Height x Width x Depth (mm) 43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle) 1.73 x 19 x 11.9 (10.8 excl. panel) Power Requirements 1.73 x 19 x 11.9 (10.8 excl. panel) 1.73 x 19 x 11.9 (10.8 excl. panel) Environment	System Performance		
Firewall Port to Port Throughput9Gbps21GbpConcurrent Sessions6300000050000New Connections Per Second5000050000Firewall Latency (average)100us100usFirewall Policies (Recommended Maximum)11000010000IPsec VPN Throughput (AES256GCM16)2.5Gbps2.5GbpsPisec VPN Throughput (AES256GCM16)2.0Kxpps2.20KppsThreat Protection Throughput Packet Per Second291Kpps625KppsThreat Protection Throughput~3.5Gpbs-7.5GbpsHigh Availability with State SynchronisationRequires TwoRequires TwoDimensions1.73 x 19 x 11.9 (10.8 excl. panel)1.73 x 19 x 11.9 (10.8 excl. panel)Form Factor19" Rackmountable19" RackmountableWeight (appliance only)4.7Kg4.85 KgEnvironment2.6A2.6APower Requirements100-240VAC, 50-60Hz100-240VAC, 50-60HzMaximum Current (single PSU)55W80WHeat Dissipation1.87.6 BTU/hr2.73 BTU/hrOperating Temperature0 to 445°C0 to 445°CStorage Temperature-2.0 to +70°C-20 to +70°CHumidity10-90% non-condensing10-90% non-condensingRegulatory Compliance-2.0 to +70°C-20 to +70°CHumidity10-90% non-condensing10-90% non-condensing	Firewall Throughput	21.1Gbps	60Gpbs
Concurrent Sessions 63000000 63000000 New Connections Per Second 50000 50000 Firewall Policies (Recommended Maximum)1 100us 100us Firewall Policies (Recommended Maximum)1 10000 10000 IPsec VPN Throughput (AES256GCM16) 2.5Gbps 2.5Gbps IPsec VPN Packet Per Second (AES256GCM16) 2.20Kpps 220Kpps Threat Protection Throughput Packet Per Second 291Kpps 625Kpps Threat Protection Throughput Packet Per Second 291Kpps 625Kpps Threat Protection Throughput ~3.5Gpbs ~7.5Gbps High Availability with State Synchronisation Requires Two Requires Two Dimensions - - 7.5Gbps Height X Width x Depth (mm) 43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle) 1.73 x 19 x 11.9 (10.8 excl. panel) Form Factor 19" Rackmountable 19" Rackmountable 19" Rackmountable Weight (appliance only) 4.7Kg 4.85 Kg 2.6A Power Requirements 100-240VAC, 50-60Hz 2.6A 2.6A Power Gosumption (Typical - single PSU) 2.6A	Firewall Packets Per Second	1760Kpps	5000Kpps
New Connections Per Second 50000 Firewall Latency (average) 100us 100us Firewall Policies (Recommended Maximum)1 100us 100us Firewall Policies (Recommended Maximum)1 100us 100us IPsec VPN Throughput (AES256GCM16) 2.5Gbps 2.5Gbps IPsec VPN Packet Per Second (AES256GCM16) 20Kpps 20Kpps Threat Protection Throughput Packet Per Second 291Kpps 625Kpps Threat Protection Throughput Packet Per Second 291Kpps 625Kpps Threat Protection Throughput Packet Per Second 291Kpps 625Kpps Threat Protection Throughput ~3.5Gpbs ~7.5Gbps High Availability with State Synchronisation Requires Two Requires Two Dimensions 43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle) 43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle) Height X With x Length (Inches) 1.73 x 19 x 11.9 (10.8 excl. panel) 1.73 x 19 x 11.9 (10.8 excl. panel) Form Factor 19" Rackmountable 19" Rackmountable 19" Rackmountable Weight (appliance only) 4.7Kg 4.85 Kg 2.6A Power Requirements	Firewall Port to Port Throughput	9Gbps	21Gpbs
Firewall Latency (average) 100us 100us Firewall Policies (Recommended Maximum)1 10000 10000 IPsec VPN Throughput (AES256GCM16) 2.5Gbps 2.5Gbps IPsec VPN Packet Per Second (AES256GCM16) 220Kpps 220Kpps Threat Protection Throughput Packet Per Second 291Kpps 220Kpps Threat Protection Throughput Packet Per Second 291Kpps 220Kpps High Availability with State Synchronisation Requires Two Requires Two Dimensions 43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle) 43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle) Height x Width x Length (inches) 1.73 x 19 x 11.9 (10.8 excl. panel) 1.73 x 19 x 11.9 (10.8 excl. panel) Form Factor 19" Rackmountable 19" Rackmountable Weight (appliance only) 4.7Kg 4.85 Kg Environment 2.6A 2.6A Power Requirements 100-240VAC, 50-60Hz 0.0-240VAC, 50-60Hz Maximum Current (single PSU) 2.6A 2.6A Power Consumption (Typical - single PSU) 55W 80W Head Dissipation 107 x 45°C 0 to x 45°C <	Concurrent Sessions	6300000	6300000
Firewall Policies (Recommended Maximum)1 10000 10000 IPsec VPN Throughput (AES256GCM16) 2.5Gbps 2.5Gbps IPsec VPN Packet Per Second (AES256GCM16) 220Kpps 220Kpps Threat Protection Throughput Packet Per Second 291Kpps 625Kpps Threat Protection Throughput Packet Per Second 291Kpps 625Kpps Threat Protection Throughput ~3.5Gpbs ~7.5Gbps High Availability with State Synchronisation Requires Two Requires Two Dimensions 43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle) 43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle) Height x Width x Length (inches) 1.73 x 19 x 11.9 (10.8 excl. panel) 1.73 x 19 x 11.9 (10.8 excl. panel) Form Factor 19" Rackmountable 19" Rackmountable Weight (appliance only) 4.7Kg 4.85 Kg Environment 2.6A 2.6A Power Requirements 100-240VAC, 50-60Hz 100-240VAC, 50-60Hz Maximum Current (single PSU) 2.6A 2.6A Power Consumption (Typical - single PSU) 55W 80W Heat Dissipation 187.6 BU/hr 273 BTU/hr <td>New Connections Per Second</td> <td>50000</td> <td>50000</td>	New Connections Per Second	50000	50000
Psec VPN Throughput (AES256GCM16)2.5Gbps2.5GbpsIPsec VPN Packet Per Second (AES256GCM16)220Kpps220KppsThreat Protection Throughput Packet Per Second291Kpps625KppsThreat Protection Throughput Packet Per Second291Kpps625KppsThreat Protection Throughput~3.5Gpbs~7.5GbpsHigh Availability with State SynchronisationRequires TwoRequires TwoDimensions43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle)43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle)Height x Width x Length (inches)1.73 x 19 x 11.9 (10.8 excl. panel)1.73 x 19 x 11.9 (10.8 excl. panel)1.73 x 19 x 11.9 (10.8 excl. panel)Form Factor19" Rackmountable19" Rackmountable19" RackmountableWeight (appliance only)4.7Kg4.85 Kg2.6APower Requirements100-240VAC, 50-60Hz2.6A2.6APower Consumption (Typical - single PSU)55W80W80WHeat Dissipation187.6 BTU/hr273 BTU/hr0 to +45°COperating Temperature-20 to +70°C-20 to +70°CHumidity10-90% non-condensing10-90% non-condensingRegulatory Compliance10-90% non-condensing10-90% non-condensing	Firewall Latency (average)	100us	100us
Psec VPN Packet Per Second (AES256GCM16)220Kpps220KppsThreat Protection Throughput Packet Per Second291Kpps625KppsThreat Protection Throughput~3.5Gpbs~7.5GbpsHigh Availability with State SynchronisationRequires TwoRequires TwoDimensions43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle)43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle)Height x Width x Depth (mm)43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle)43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle)Form Factor1.73 x 19 x 11.9 (10.8 excl. panel)1.73 x 19 x 11.9 (10.8 excl. panel)Form Factor19" Rackmountable19" RackmountableWeight (appliance only)4.7Kg4.85 KgEnvironment2.6APower Requirements100-240VAC, 50-60Hz100-240VAC, 50-60HzMaximum Current (single PSU)2.6A2.6APower Consumption (Typical - single PSU)55W80WHeat Dissipation0 to +45°C0 to +45°CStorage Temperature-20 to +70°C-20 to +70°CHumidity10-90% non-condensing10-90% non-condensing	Firewall Policies (Recommended Maximum)1	10000	10000
Threat Protection Throughput Packet Per Second291Kpps625KppsThreat Protection Throughput~3.5Gpbs~7.5GbpsHigh Availability with State SynchronisationRequires TwoRequires TwoDimensionsHeight x Width x Depth (mm)43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle)43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle)Height x Width x Length (inches)1.73 x 19 x 11.9 (10.8 excl. panel)1.73 x 19 x 11.9 (10.8 excl. panel)Form Factor19" Rackmountable19" RackmountableWeight (appliance only)4.7Kg4.85 KgEnvironmentPower Requirements100-240VAC, 50-60Hz100-240VAC, 50-60HzMaximum Current (single PSU)2.6A2.6APower Consumption (Typical - single PSU)55W80WHeat Dissipation187.6 BTU/hr273 BTU/hrOperating Temperature0 to +45°C0 to +45°CStorage Temperature-20 to +70°C-20 to +70°CHumidity10-90% non-condensing10-90% non-condensing	IPsec VPN Throughput (AES256GCM16)	2.5Gbps	2.5Gbps
Threat Protection Throughput~3.5Gbbs~7.5GbpsHigh Availability with State SynchronisationRequires TwoRequires TwoDimensionsHeight x Width x Depth (mm)43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle)43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle)Height x Width x Length (inches)1.73 x 19 x 11.9 (10.8 excl. panel)1.73 x 19 x 11.9 (10.8 excl. panel)Form Factor19" Rackmountable19" RackmountableWeight (appliance only)4.7Kg4.85 KgEnvironmentPower Requirements100-240VAC, 50-60Hz100-240VAC, 50-60HzMaximum Current (single PSU)2.6A2.6APower Consumption (Typical - single PSU)55W80WHeat Dissipation187.6 BTU/hr273 BTU/hrOperating Temperature0 to +45°C0 to +45°CStorage Temperature-20 to +70°C-20 to +70°CHumidity10-90% non-condensing10-90% non-condensing	IPsec VPN Packet Per Second (AES256GCM16)	220Kpps	220Kpps
High Availability with State SynchronisationRequires TwoRequires TwoDimensionsHeight x Width x Depth (mm)43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle)43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle)Height x Width x Length (inches)1.73 x 19 x 11.9 (10.8 excl. panel)1.73 x 19 x 11.9 (10.8 excl. panel)Form Factor19" Rackmountable19" RackmountableWeight (appliance only)4.7Kg4.85 KgEnvironment100-240VAC, 50-60Hz100-240VAC, 50-60HzPower Requirements100-240VAC, 50-60Hz2.6APower Consumption (Typical - single PSU)2.6A2.6APower Consumption (Typical - single PSU)55W80WHeat Dissipation187.6 BTU/hr273 BTU/hrOperating Temperature0 to +45°C0 to +45°CStorage Temperature-20 to +70°C-20 to +70°CHumidity10-90% non-condensing10-90% non-condensingRegulatory Compliance10-90% non-condensing10-90% non-condensing	Threat Protection Throughput Packet Per Second	291Kpps	625Kpps
Dimensions 43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle) 43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle) Height x Width x Length (inches) 1.73 x 19 x 11.9 (10.8 excl. panel) 1.73 x 19 x 11.9 (10.8 excl. panel) Form Factor 19" Rackmountable 19" Rackmountable Weight (appliance only) 4.7Kg 4.85 Kg Environment 100-240VAC, 50-60Hz 100-240VAC, 50-60Hz Power Requirements 100-240VAC, 50-60Hz 2.6A Power Consumption (Typical - single PSU) 55W 80W Heat Dissipation 187.6 BTU/hr 273 BTU/hr Operating Temperature 0 to +45°C 0 to +45°C Storage Temperature -20 to +70°C -20 to +70°C Heunidity 10-90% non-condensing 10-90% non-condensing	Threat Protection Throughput	~3.5Gpbs	~7.5Gbps
Height x Width x Depth (mm) 43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle) 43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle) Height x Width x Length (inches) 1.73 x 19 x 11.9 (10.8 excl. panel) 1.73 x 19 x 11.9 (10.8 excl. panel) Form Factor 1.9" Rackmountable 1.9" Rackmountable Weight (appliance only) 4.7Kg 4.85 Kg Environment 2.6A 2.6A Power Requirements 100-240VAC, 50-60Hz 100-240VAC, 50-60Hz Maximum Current (single PSU) 55W 80W Power Consumption (Typical - single PSU) 187.6 BTU/hr 273 BTU/hr Operating Temperature 0 to +45°C 0 to +45°C Storage Temperature -20 to +70°C -20 to +70°C Humidity 10-90% non-condensing 10-90% non-condensing	High Availability with State Synchronisation	Requires Two	Requires Two
Height x Width x Length (inches) 1.73 x 19 x 11.9 (10.8 excl. panel) 1.73 x 19 x 11.9 (10.8 excl. panel) Form Factor 19" Rackmountable 19" Rackmountable Weight (appliance only) 4.7Kg 4.85 Kg Environment 2.6A 2.6A Power Requirements 100-240VAC, 50-60Hz 100-240VAC, 50-60Hz Maximum Current (single PSU) 2.6A 2.6A Power Consumption (Typical - single PSU) 55W 80W Heat Dissipation 187.6 BTU/hr 273 BTU/hr Operating Temperature 0 to +45°C 0 to +45°C Storage Temperature -20 to +70°C -20 to +70°C Humidity 10-90% non-condensing 10-90% non-condensing	Dimensions		
Form Factor19" Rackmountable19" RackmountableWeight (appliance only)4.7Kg4.85 KgEnvironmentPower Requirements100-240VAC, 50-60Hz100-240VAC, 50-60HzMaximum Current (single PSU)2.6A2.6APower Consumption (Typical - single PSU)55W80WHeat Dissipation187.6 BTU/hr273 BTU/hrOperating Temperature0 to +45°C0 to +45°CStorage Temperature-20 to +70°C-20 to +70°CHumidity10-90% non-condensing10-90% non-condensing	Height x Width x Depth (mm)	43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle)	43.8 (1U) x 482.6 (19") x 302 (274 excl. mount/handle)
Weight (appliance only)4.7Kg4.85 KgEnvironmentPower Requirements100-240VAC, 50-60Hz100-240VAC, 50-60HzMaximum Current (single PSU)2.6A2.6APower Consumption (Typical - single PSU)55W80WHeat Dissipation187.6 BTU/hr273 BTU/hrOperating Temperature0 to +45°C0 to +45°CStorage Temperature-20 to +70°C-20 to +70°CHumidity10-90% non-condensing10-90% non-condensing	Height x Width x Length (inches)	1.73 x 19 x 11.9 (10.8 excl. panel)	1.73 x 19 x 11.9 (10.8 excl. panel)
EnvironmentPower Requirements100-240VAC, 50-60Hz100-240VAC, 50-60HzMaximum Current (single PSU)2.6A2.6APower Consumption (Typical - single PSU)55W80WHeat Dissipation187.6 BTU/hr273 BTU/hrOperating Temperature0 to +45°C0 to +45°CStorage Temperature-20 to +70°C-20 to +70°CHumidity10-90% non-condensing10-90% non-condensingRegulatory ComplianceInterpretInterpret	Form Factor	19" Rackmountable	19" Rackmountable
Power Requirements100-240VAC, 50-60Hz100-240VAC, 50-60HzMaximum Current (single PSU)2.6A2.6APower Consumption (Typical - single PSU)55W80WHeat Dissipation187.6 BTU/hr273 BTU/hrOperating Temperature0 to +45°C0 to +45°CStorage Temperature-20 to +70°C-20 to +70°CHumidity10-90% non-condensing10-90% non-condensingRegulatory Compliance1010	Weight (appliance only)	4.7Kg	4.85 Kg
Maximum Current (single PSU)2.6A2.6APower Consumption (Typical - single PSU)55W80WHeat Dissipation187.6 BTU/hr273 BTU/hrOperating Temperature0 to +45°C0 to +45°CStorage Temperature-20 to +70°C-20 to +70°CHumidity10-90% non-condensing10-90% non-condensingRegulatory ComplianceImage: ComplianceImage: Compliance	Environment		
Power Consumption (Typical - single PSU)55W80WHeat Dissipation187.6 BTU/hr273 BTU/hrOperating Temperature0 to +45°C0 to +45°CStorage Temperature-20 to +70°C-20 to +70°CHumidity10-90% non-condensing10-90% non-condensingRegulatory Compliance	Power Requirements	100-240VAC, 50-60Hz	100-240VAC, 50-60Hz
Heat Dissipation 187.6 BTU/hr 273 BTU/hr Operating Temperature 0 to +45°C 0 to +45°C Storage Temperature -20 to +70°C -20 to +70°C Humidity 10-90% non-condensing 10-90% non-condensing Regulatory Compliance Example Condensity Example Condensity	Maximum Current (single PSU)	2.6A	2.6A
Operating Temperature 0 to +45°C 0 to +45°C Storage Temperature -20 to +70°C -20 to +70°C Humidity 10-90% non-condensing 10-90% non-condensing Regulatory Compliance	Power Consumption (Typical - single PSU)	55W	80W
Storage Temperature -20 to +70°C -20 to +70°C Humidity 10-90% non-condensing 10-90% non-condensing Regulatory Compliance Image: Compliance Image: Compliance	Heat Dissipation	187.6 BTU/hr	273 BTU/hr
Humidity 10-90% non-condensing 10-90% non-condensing Regulatory Compliance 10-90% non-condensing 10-90% non-condensing	Operating Temperature	0 to +45°C	0 to +45°C
Regulatory Compliance	Storage Temperature	-20 to +70°C	-20 to +70°C
	Humidity	10-90% non-condensing	10-90% non-condensing
FCC part 15 Class A, CE, Rohs FCC part 15 Class A, CE, Rohs	Regulatory Compliance		
		FCC part 15 Class A, CE, Rohs	FCC part 15 Class A, CE, Rohs

¹ The user interface is designed for normal business usage, large rulesets, high number of users or interface assignments may be less practical.

All measurements are based upon TCP traffic unless stated otherwise. Total Firewall Throughput is calculated based on maximum PPS and standard 1500 byte packets. Maximum PPS is measured using 500 byte packets. IPS performance is measured using ET Open and standard 1500 byte package size (using Suricata version 6.0.12 / Netmap version 14) SSL VPN is measured using AES256GCM16+SHA512. Concurrent sessions are based upon memory available, where one state consumes 1KB of memory and 1GB of memory is reserved for system tasks. Latency is measured as an average over 60 seconds.

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