

DEC4200 Series

Rack Security Appliance Enterprise & datacenter Edition



Simply the best

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



Hardware Assisted Encryption 2.5Gbps IPsec (AES256GCM16)



Guard Web Access Filtering (SSL) Proxy Captive Portal with Voucher support



1 TB SSD Offering Sufficient Space for Logging & Reporting



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



Dual Power Supply Integrated non-interrupted automatic failover





Dual power supply

Integrated non-interrupted automatic failover. High quality 93% Efficient Power Supplies with MTBF of 2472K hrs Telcordia TR/SR-332(Bellcore) (that is over 200 years!).

Powerfull dual die 16 core SOC*

The fastest EPYC 3000 cpu available for the most demanding Network loads.

*Maximum specification / DEC4280

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.

Sufficient storage & RAM

One terabyte of integrated storage for logging and advanced features. Sufficient memory for most demanding features and plugins like Zenarmor (for 2000+ connected devices)

Network connectivity

A maximum of twelve network ports. Connect the way you want: four SFP28 ports (25Gbps) DEC4280 only, four SFP+ ports (10Gbps) and four RJ45 Ethernet ports (2.5 Gbps)



Certified hardware from the developers

Made in the Netherlands







Bundled with a free year OPNsense[®] Business Edition

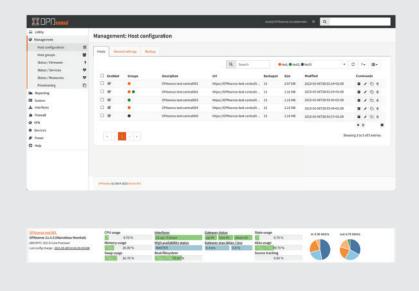
A 5-star experience

- * 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

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





Software Versatile, open source and fully featured

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.

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	Fire	Firewall: Rules: LAN					Nothing selected		
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4 10.61		LAX rules are explicitly parted in this match basis (), a the action of the first rule to match a packet will be executed. This means that if you use block rules, you will have to pay attention to the rule order. Everything that - is not explicitly parted in blocked by debuilt.							
3									

Businesses

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.



O Cloud Backup

O Monitor & Traps

o Filter reload status

o Firewall Info (pfInfo)o Top Users (pfTop)

• Bogons • Current Open Sockets

o Firewall Tables

o Show All States

o State Summary • Wake on LAN

o State Reset

o ARP Table

O NDP Table

o Test Port

o Trace route

o Monit (Plugin)

Enhanced Reporting

Fully Integrated

• CVS Exporter • System Health

Exportable

Network Monitoring

 Netflow Exporter Version 5 & version 9

o Easy Upgrade

upgrades

 OpenSSL LibreSSL

upgrade) • Audit Feature

O Plugin Support

o ACL support

Online Documentation

For updated information on

OPNsense is a **Deciso**[•] brand.

• Free & Searchable

current release see

docs.opnsense.org

REST API

· Local for 'Insight'

o Support Virtual Installs

o SSL Flavour selectable

• VMware tools (Plugin)

• Xen Guest Utilities (Plugin)

Reboot warning for base

o Selectable Package Mirror

Check installed packages for

known security vulnerabilities

o Reinstall Single Package

o Lock Package (prevents

O Traffic Graph

Firmware

o Pina

O DNS Lookup

Packet Capture

Monitoring o Zabbix Agent (Plugin)

Proactive System Monitoring

o Network Flow Analyzer 'Insight'

Graphical Representation

Clickable and Searchable

Detailed Aggregation

• Round Robin Data

Live Traffic Monitoring

Selection & Zoom

Aliases

o Git Backup

Diagnostics

SNMP

Overview software features

o Failover

o Load Balance

0 802.3ad LACP

Other Interface types

Bridged interfaces

Generic Routing

Automated (Trusted) CA

Link Aggregation & Failover

o Round Robino Cisco Ether Channel (FEC)

• Generic Tunnel Interface (GIF)

802.1Q VLAN support

o Max 4096 VLAN's

Feodo Tracker

o SSL Fingerprinting

configurable cron

Typical Applications

Multiple Zones

o Authenticators

o Portal bypass

Time left

Rest API

o IPsec Site to Site

Active Sessions

Virtual Private Networks

Road Warrior

Road Warrior

Road Warrior

• Full mesh routing

ZeroTier (Plugin)
 VPN, SDN & SD-WAN

Easy client configuration

o Automatic hardware failover

• Configuration synchronisation

o SSL Domain only (easy filtering)

Auto sync for remote blacklists

o Category Based Web-filter

o ICAP (supports virus scan

Virus scanning (via plugins)

o External engine support

o ClamAV (Plugin / C-ICAP)

o HAProxy - Load balancer

Online Identity Protection

o History & Diff support • File Backup

o Tor - Anonymity online (Plugin)

o Synchronized state table

• Site to Site

Site to Site

O OpenVPN

exporter • Tinc (Plugin)

High Availability

Caching Proxy

engine)

(ICAP)

Reverse Proxy

Backup & Restore

(Plugin)

Multi interface

O Transparent Mode

o Support SSL Bump

Access Control Lists
 Blacklists

o Traffic Management

• WireGuard (Plugin)

Guest Network
 Bring Your Own Device

• Template Management

Hotel & Camping Wifi Access

· All available authenticators

None (Splash Screen Only)
 Voucher Manager
 Multiple Voucher Databases

Export vouchers to CSV

o Timeouts & Welcome Back

Bandwidth Management
 Use Traffic Shaper

MAC and IP whitelisting

Real Time Reporting
 Live top IP bandwidth usage

Captive Portal

(BYOD)

o Auto rule update using

• Emerging Threats ETOpen

Stateful firewall

- o Filter by Source
- Destination
- Protocol
- Port
- · OS (OSFP)
- o Limit simultaneous connec-
- tions on a per rule base o Log matching traffic on a per
- rule bases
- o Policy Based Routing
- o Packet Normalisation o Option to disable filter for
- , pure router mode

Policy organization • Alias Support

- IP addresses
- Port ranges
- Domain names (FQDN)
- Interface Groups
 Create security zones with
- equal rules o Rule Category
- Easy access rule sets

Granular control state table

- o Adjustable state table size
- o On a per rule bases • Limit simultaneous client
- connection • Limit states per host
- Limit new connections per second
- Define state timeout Define state type
- o State types
- Keep
- Sloppy
- Modulate
- Synproxy None
- o Optimisation options
- Normal
- High latency
- Agressive Conservative

Authentication

- External Servers
- Radius o Integrated Servers
- Local User Manager
- Vouchers / Tickets
- FreeRadius (Plugin)

Authorization

- O User Interface • Local User Manager
- Accounting
- o FreeRadius (Plugin & External) • Vouchers / Tickets
- 2-Factor Authentication
- O Supports TOTP
- o Google Authenticator
- o Supported services:
- Captive Portal
- Proxy VPN
- GUI • SSH / Console
- Certificates
- o Certificate Authority
- Create or Import CA's
- Create or Import Certificates Let's Encrypt (Plugin)

Deciso Sales B.V. +31187744020 sales@deciso.com www.deciso.com

- Encapsulation **Network Address Translation**
 - Port forwarding
 - o 1:1 of ip's & subnets
 - Outbound NATNAT Reflection

 - **Traffic Shaping**
 - o Limit bandwidth o Share bandwidth

 - Prioritize traffic
 - Rule based matching Protocol
 - Source
 - Destination
 - Port Direction

- IGMP Proxy • For multicast routing
- Universal Plua & Play • Fully supported

- Dynamic DNS
- Selectable form a list o Custom
- o RFC 2136 support

DNS Forwarder • Host Overrides

- o Domain Overrides O DNS Server
- O Host Overrides
- A records
- MX records o Access Lists

DNS Filter

Supports OpenDNS

DHCP Server O IPv4 & IPv6

o Relay Support o BOOTP options

- Multi WAN
- o Load balancing o Failover
- o Aliases

Load Balancer

o Balance incoming traffic over multiple servers

Intrusion Detection & Prevention

Network Time Server

- Hardware devices
- GPS Pulse Per Second

o Inline Prevention

SSL Blacklists

o Integrated rulesets



Specifications and model comparison

Models	DEC4240	DEC4280
Software		
Preinstalled software	OPNsense [®]	OPNsense [®]
License	Open Source + 1 year free Business Edition	Open Source + 1 year free Business Edition
Hardware Specifications		
SFP+ Ports [10Gbps] / SFP28 Ports [25Gbps]	4/0	4/4
GbE RJ45 Ports [100/1000/2500Mbps]	4	4
USB 3.0 Ports	1	1
Console Port	1	1
Internal Storage	1TB M.2. Solid State Flash	1TB M.2. Solid State Flash
Memory	64GB DDR4	64GB DDR4
CPU Cores	8 (max frequency 3.1Ghz)	16 (max frequency 3.1Ghz)
Virtual Interfaces (802.1q VLANS)1	4093	4093
System Performance		
Firewall Throughput	21.1Gbps	60Gpbs
Firewall Packets Per Second	1760Kpps	5000Kpps
Firewall Port to Port Throughput	9Gbps	21Gpbs
Concurrent Sessions	6300000	6300000
New Connections Per Second	50000	50000
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	220Кррѕ
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		
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	19" Rackmountable	19" Rackmountable
Weight (appliance only)	4.7 kg	4.85 kg
Environment		
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
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 6.012 / 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.