

AMD EPYC™ Performance.

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



17Gbps Throughput 1.5 Mega Packets per Second



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



~2Gbps Inline Intrusion Prevention



512GB SSD Offering Sufficient Space for Logging & Reporting



Fast Filtering Up to 50.000 Connections per Second



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



Hardware Assisted Encryption 2.5Gbps IPsec (AES256GCM16)

Securing Networks™



CERTIFIED HARDWARE FROM THE DEVELOPERS

CERTIFIED HARDWARE FROM THE DEVELOPERS - MADE IN THE NETHERLANDS

DEC3800 SERIES



Bundled with a free year OPNsense® Business Edition

- $\sqrt{\text{Commercial firmware repository}}$
- $\sqrt{\text{Free GeoIP database}}$
- $\sqrt{10}$ Official OPNsense Open Virtualization Image
- $\sqrt{1}$ Free professional plugins (OPNcentral, Proxy Access)
- $\sqrt{\text{Free E-Book}}$ (English & German)



PSense

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🖋 Poner		LAV rules are evaluated on a frast-match basis (a. the action of the first nule to match a packet will be executed). This means that if you use block rules, you will have to pay attention to the nule order. Everything that inner explicitly passed is blocked by default.										
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Help												

OPNsense® Secure Your Network With Ease™

Protect your business network and secure your connections.

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.



included for free.Use the traffic shaper to enhance network performance.

Businesses

Schools

Limit and share available bandwidth evenly amongst students and utilize 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.

From the stateful inspection firewall to the inline intrusion detection & prevention system everything is



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.

J||| **J**sense • GUI

- Stateful firewall
- Filter by
- · Source
- · Destination
- Protocol
- Port
- OS (OSFP)
- Limit simultaneous connections on a per rule base
- Log matching traffic on a per rule
- bases
- Policy Based Routing
- Packet Normalisation 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
- Rule Category
- · Easy access rule sets

Granular control state table

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

· Agressive

Conservative

- Authentication
- External Servers LDAP
- Radius
- Integrated Servers Local User Manager
 - Vouchers / Tickets
- · FreeRadius (Plugin)
- Authorization
- User Interface
- · Local User Manager

Accounting

- FreeRadius (Plugin & External)
- Vouchers / Tickets
- 2-Factor Authentication
- Supports TOTP
- Google Authenticator Supported services:
- Captive Portal
- Proxy
- VPN

- · 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

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 Mode Support 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

Template Management

File Backup

Git Backup

Diagnostics Filter reload status

SNMP

Cloud Backup

Monitor & Traps

Firewall Info (pfInfo)

Current Open Sockets

Top Users (pfTop)

Firewall Tables

Show All States

State Summary

Wake on LAN

ARP Table

NDP Table

Test Port

Monitoring

Trace route

Monit (Plugin)

e Ping

• DNS Lookup

Packet Capture

Zabbix Agent (Plugin)

Enhanced Reporting

· Fully Integrated

· CVS Exporter

· Round Robin Data

Selection & Zoom

 Live Traffic Monitoring Network Monitoring

System Health

· Exportable

Netflow Exporter Version 5 & version 9

• 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

· VMware tools (Plugin)

· Xen Guest Utilities (Plugin)

Reboot warning for base

Traffic Graph

Firmware

· Detailed Aggregation Graphical Representation

· Proactive System Monitoring

Network Flow Analyzer 'Insight'

· Clickable and Searchable

Aliases

Bogons

State Reset

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

Link Aggregation & Failover

- Failover
- Load Balance
- Round Robin
- Cisco Ether Channel (FEC) 802.3ad LACP
- Other Interface types Bridged interfaces
- Generic Tunnel Interface (GIF) Generic Routing Encapsulation
- **Network Address Translation**
- Port forwarding
- 1:1 of ip's & subnets
- 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**

DNS Forwarder

Host Overrides

Host Overrides

· MX records

Supports OpenDNS

A records

Access Lists

DHCP Server

IPv4 & IPv6

Multi WAN

Failover

Aliases

• GPS

Relay Support

BOOTP options

Load balancing

Load Balancer

multiple servers

Hardware devices

Inline Prevention

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Network Time Server

· Pulse Per Second

Balance incoming traffic over

Intrusion Detection & Prevention

DNS Filter

DNS Server

Domain Overrides

 Selectable form a list Custom RFC 2136 support

FULL SPECIFICATIONS AND MODEL COMPARISON

Software



Preinstalled software	OPNsense®	OPNsense®	OPNsense®
License	Open Source + 1 year free Business	Open Source + 1 year free Business	Open Source + 1 year free Business
Hardware Specifications			
SFP+ Ports [10Gbps]	2	2	2
1GbE RJ45 [10/100/1000] / 2.5 GbE RJ45 Ports [100/1000/2500Mbps]	4x 1GbE	4x 2.5GbE	4x 2.5GbE
USB 3.0 Ports	2	2	2
Console Port	1	1	1
Internal Storage	256GB M.2. Solid State Flash	256GB M.2. Solid State Flash	512GB M.2. Solid State Flash
Memory	8GB DDR4	16GB DDR4	32GB DDR4
CPU Cores	4 (max frequency 2.9Ghz)	8 (max frequency 3.1Ghz)	8 (max frequency 3.1Ghz)
Virtual Interfaces (802.1q VLANS)1	4093	4093	4093
System Performance			
Firewall Throughput	14.4Gbps	17.4Gpbs	17.4Gpbs
Firewall Packets Per Second	1200Kpps	1450Kpps	1450Kpps
Firewall Port to Port Throughput	9Gbps	9Gpbs	9Gpbs
Firewall Port to Port Packets Per Second	1200Kpps	1450Kpps	1450Kpps
Concurrent Sessions	700000	1500000	3100000
New Connections Per Second	50000	50000	50000
Firewall Latency (average)	100us	100us	100us
Firewall Policies (Recommended Maximum)1	10000	10000	10000
IPsec VPN Throughput (AES256GCM16)	2.3Gbps	2.5Gbps	2.5Gbps
IPsec VPN Packet Per Second (AES256GCM16)	200Kpps	220Kpps	220Kpps
Threat Protection Throughput Packet Per Second	163Kpps	163Kpps	163Kpps
Threat Protection Throughput	~2Gpbs	~2Gbps	~2Gbps
High Availability with State Synchronisation	Requires Two	Requires Two	Requires Two
Dimensions			
Height x Width x Depth (mm)	43.65 (1U) x 482.6 (19") x 282 (259 excl. panel)	43.65 (1U) x 482.6 (19") x 282 (259 excl. panel)	443.65 (1U) x 482.6 (19") x 282 (259 excl. panel)
Height x Width x Length (inches)	1.72 x 19 x 11.1 (10.2 excl.	1.72 x 19 x 11.1 (10.2 excl.	1.72 x 19 x 11.1 (10.2 excl.
Form Factor	19" Rackmountable	19" Rackmountable	19" Rackmountable
Weight (appliance only)	3.45Kg	3.45 Kg	3.45 Kg
Environment			
Power Requirements	100-240VAC, 50-60Hz	100-240VAC, 50-60Hz	100-240VAC, 50-60Hz
Maximum Current	2.2A	2.2A	2.2A
Power Consumption (Typical)	40W	45W	45W
Heat Dissipation	136.5 BTU/hr	153.6 BTU/hr	153.6 BTU/hr
Operating Temperature	0 to +50°C	0 to +50°C	0 to +50°C
Storage Temperature	-20 to +70°C	-20 to +70°C	-20 to +70°C
Humidity	10-90% non-condensing	10-90% non-condensing	10-90% non-condensing
Regulatory Compliance			
	FCC part 15 Class A, CE, Rohs	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. 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.