

# DEC3800 Series

## Rack Security Appliance



## 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)**

## 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
- \* Free E-Book (English & German)
- \* Free E-learning course: Hands-On Labs for Beginners
- \* Extra Professional features:
  - Web Application Firewall
  - Proxy Access
  - Extended identification option (OIDC)
  - OPNcentral™
  - Integrated GeoIP database

## OPNcentral™

Central Management,  
the OPNsense® way

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

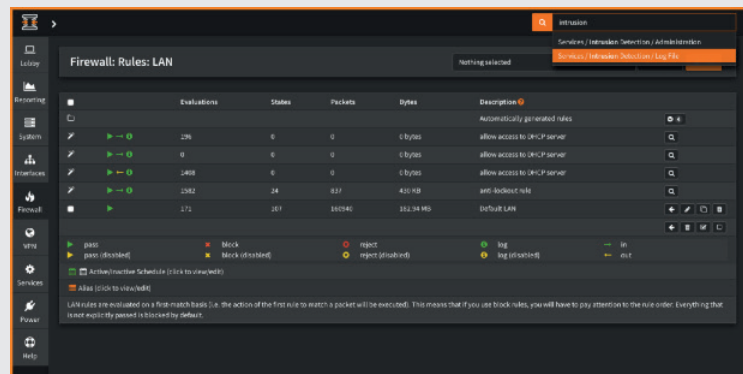


## Software

# 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.



## 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.

## Specifications and model comparison

Models	DEC3842	DEC3852	DEC3862
			
<b>Software</b>			
Preinstalled software	OPNsense®	OPNsense®	OPNsense®
License	Open Source + 1 year free Business Edition	Open Source + 1 year free Business Edition	Open Source + 1 year free Business Edition
<b>Hardware Specifications</b>			
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	1	1	1
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) <sup>1</sup>	4093	4093	4093
<b>System Performance</b>			
Firewall Throughput	14.4Gbps	17.4Gbps	17.4Gbps
Firewall Packets Per Second	1200Kpps	1450Kpps	1450Kpps
Firewall Port to Port Throughput	9Gbps	9Gbps	9Gbps
Firewall Port to Port Packets Per Second	1200Kpps	1450Kpps	1450Kpps
Concurrent Sessions	7000000	15000000	31000000
New Connections Per Second	50000	50000	50000
Firewall Latency (average)	100us	100us	100us
Firewall Policies (Recommended Maximum) <sup>1</sup>	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	~2Gbps	~2Gbps	~2Gbps
High Availability with State Synchronisation	Requires Two	Requires Two	Requires Two
<b>Dimensions</b>			
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
<b>Environment</b>			
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
<b>Regulatory Compliance</b>			
	FCC part 15 Class A, CE, Rohs	FCC part 15 Class A, CE, Rohs	FCC part 15 Class A, CE, Rohs

<sup>1</sup>) 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.