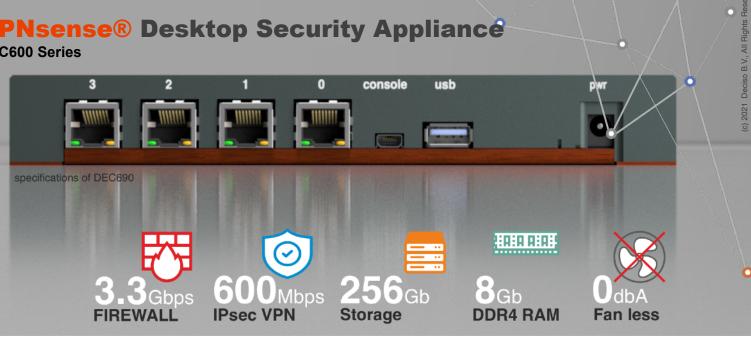
IIII Jsense®

OPNsense® Desktop Security Appliance

DEC600 Series



Gigabit Performance.

This embedded appliance delivers gigabit performance yet doesn't make a sound. The specially designed cooling profile allows for cool operation even when stressed to the max.



3.300Mbps Throughput 250.000 Packets per Second



327Mbps Inline High Speed **Intrusion Prevention & SSL Finger Printing**



Fast Filtering 35.000 connections P/S Low Latency ~1.6mS (with CoDel & Traffic Shaper)

Hardware Assisted Encryption 600Mbps IPsec (AES256GCM16)



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

ved. [rev.300821]



Up to 356Gb SSD **Offering Sufficient Space for** Logging & Reporting



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







CERTIFIED HARDWARE FROM THE DEVELOPERS - MADE IN THE NETHERLANDS

DEC600 SERIES



Bundled with a free year OPNsense® Business Edition

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



PSense

E ,								٩	intrusion		
									Services / Intrusion Detection	/Administration	
Lebby	Firewall: Rules: LAN							Nothing selected Services / Intrusion Detection / Log File			
leporting			Evaluat	ioni	States	Packata	Dytes	Description ()			
=										0.4	
System										٩	
<i>ф</i>										٩	
terlaces										٩	
4										٩	
Firewall	•									• • •	
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	 pas pas 	is is (disabled)		 block block (disable 			reject reject (disabled)	0 log 0 log (ci sabled)			
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	🚍 Alius (dick to vitav/tedit)										
🖋 Poner		LAX rules are valuated on a fract-matchbasis (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 passed is block-adjust additional additiona									
٥											
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 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.



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

router mode

Alias Support

· IP addresses

Interface Groups

rules

Rule Category

Port ranges

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

ProxyVPN

• 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

GOI 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
- 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
- DestinationPort
- FU
 - 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
 - A record
 - MX records
 - Access Lists
 - DNS Filter
 - Supports OpenDNS
 - **DHCP Server**
 - IPv4 & IPv6
 - Relay Support
 - BOOTP options
 - Multi WAN
 - Load balancing
 - Luau Dala
 - Failover
 - Aliases
 - Load Balancer
 - Balance incoming traffic over multiple servers
 - Network Time Server
 - Hardware devices
 GPS

- Pulse Per Second
 Intrusion Detection & Prevention
 Indian Prevention
- Inline Prevention

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- File Backup
 - Cloud Backup
 - Git Backup
 - SNMP
 - Monitor & Traps
 - Diagnostics
 - Filter reload status
 Firewall Info (pfInfo)
 - Top Users (pfTop)
 - Firewall Tables
 - Aliases
 - Bogons
 - Current 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

- abbix Agent (Plugin)
- Monit (Plugin)

Proactive System Monitoring

Enhanced Reporting

- Network Flow Analyzer 'Insight'
- Fully Integrated

· CVS Exporter

· 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

System Health

· Exportable

Netflow Exporter

• Easy Upgrade

upgrades

· OpenSSL

LibreSSL

Audit Feature

Plugin Support

Free & Searchable

ACL support
 Online Documentation

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

Detailed AggregationGraphical Representation

· Clickable and Searchable

FULL SPECIFICATIONS AND MODEL COMPARISON



Software			
Preinstalled software	OPNsense®	OPNsense®	
license	Open Source + 1 year free Business Edition	Open Source + 1 year free Business Edition	
lardware Specifications			
GbE RJ45 Ports [10/100/1000Mbps]	4	4	
JSB Ports	1	1	
Console Port	1	1	
nternal Storage	16GB Solid State Flash	256GB Solid State Flash	
lemory	4GB DDR3	8GB DDR3	
CPU Cores	4 (1.6Ghz)	(1.6Ghz)	
/irtual Interfaces (802.1q VLANS)1	4093	4093	
System Performance			
irewall Throughput	3300Mbps	3300Mpbs	
irewall Packets Per Second	250Kpps	250Kpps	
irewall Port to Port Throughput	941Mbps	941Mpbs	
irewall Port to Port Packets Per Second	78Kpps	78Kpps	
concurrent Sessions	3000000	7000000	
irewall Latency (average)	200us	200us	
irewall Policies (Recommended Maximum)1	10000	10000	
Psec VPN Throughput (AES256GCM16)	600Mbps	600Mbps	
ligh Availability with State Synchronisation	Requires Two	Requires Two	
limensions			
leight x Width x Length (mm)	27 x 200 x 146	27 x 200 x 146	
leight x Width x Length (inches)	1.07 x 7.87 x 5.75	1.07 x 7.87 x 5.75	
Form Factor	Desktop (optional Wallmount)	Desktop (optional Wallmount)	
Veight (appliance only)	0.9Kg	1Kg	
invironment			
Power Requirements	100-240VAC, 50-60Hz	100-240VAC, 50-60Hz	
Power Consumption (Typical)	25W	25W	
leat Dissipation	85 BTU/hr	85 BTU/hr	
Operating Temperature	0 to +45°C	0 to +45°C	
Storage Temperature	-20 to +70°C	-20 to +70°C	
lumidity	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.

Total Firewall Throughput is calculated based on system utilization and actual measured port-to-port performance (if both numbers are the same no measurement of system utilization was recorded and maximum theoretical throughput is likely to be higher). Maximum PPS is measured using IMIX. All throughput numbers are based upon maximum packets per second multiplied by standard 1514byte frame size minus additional overhead where applicable IPsec traffic is measured using AES256GCM16 via a routed tunnel.Latency is measured as an average over 60 seconds with system at 80% of maximum load and 256byte UDP packages . IPS performance is measured using a EMIX simulation. Concurrent sessions are based upon memory available, where one state consumes 1KB of memory and 1GB of memory is reserved for system tasks.