

DEC600 Series

Desktop Security Appliance



2.5 Gigabit performance

This embedded appliance delivers 2.5 gigabit ethernet performance yet doesn't make a sound. The specially designed cooling profile allows for cool operation even when stressed to the max.



5.000Mbps Throughput 420.000 Packets per Second



540Mbps Inline High Speed Intrusion **Prevention & SSL Finger Printing**



Fast Filtering Low Latency ~125uS



Hardware Assisted Encryption 600Mbps IPsec (AES256GCM16)



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



Up to 256Gb NVMe Offering Sufficient Space for Logging & Reporting

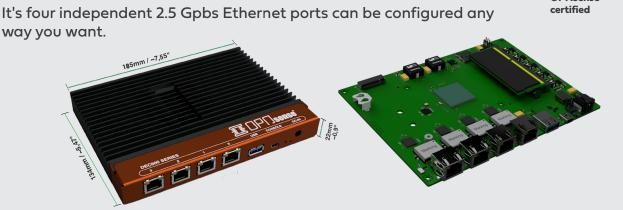


System wide two-factor authentication. Compatible with Google Authenticator.



At the heart of this small desktop, AMD's **G-Series SOC powers the Netboard A8**

OPNsense[®] certified





Bundled with a free year OPNsense[®] Business Edition

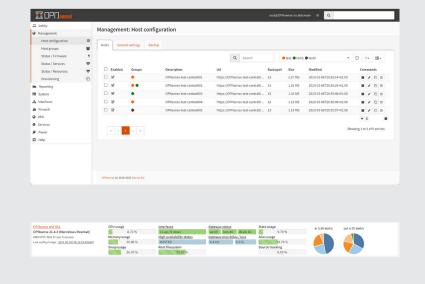
A 5-star experience

- * 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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	Firewall: Rules: LAN						Nothing selected Services / Intresien Detection / Log File		
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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

Firewall Info (pfInfo)Top Users (pfTop)

o Current Open Sockets

o Firewall Tables

Show All States

o State Summary o Wake on LAN

Aliases

• Bogons

o State Reset

o ARP Table

O NDP Table

o Test Port

Monitoring

o Trace route

o Monit (Plugin)

Enhanced Reporting

Fully Integrated

CVS Exporter

• Round Robin Data

Live Traffic Monitoring

Version 5 & version 9

Local for 'Insight'

o Support Virtual Installs

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

Selection & Zoom

O System Health

Exportable

Network Monitoring

Netflow Exporter

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

O Traffic Graph

Firmware

o Zabbix Agent (Plugin)

Proactive System Monitoring

o Network Flow Analyzer 'Insight'

Detailed Aggregation
 Graphical Representation

Clickable and Searchable

o Ping o Packet Capture

O DNS Lookup

o Git Backup

Diagnostics

SNMP

Overview software features

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
- 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 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
- 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)

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Automated (Trusted) CA

Feodo Tracker

o SSL Fingerprinting

configurable cron

o Typical Applications

Multiple Zones Authenticators

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

o Portal bypass

• Time left

Rest API

o IPsec Site to Site

Active Sessions

Road Warrior

Road Warrior

Road Warrior

ZeroTier (Plugin)

Hiah Availability

Caching Proxy

O Blacklists

engine)

(ICAP)

(Plugin)

o Multi interface

O Transparent Mode

o Support SSL Bump

o Access Control Lists

Full mesh routing

· VPN, SDN & SD-WAN

Synchronized state table

o Automatic hardware failover

Configuration synchronisation

o SSL Domain only (easy filtering)

O Category Based Web-filter
 O Traffic Management

o ICAP (supports virus scan

Virus scanning (via plugins)

o External engine support

ClamAV (Plugin / C-ICAP)

Reverse Proxy o HAProxy - Load balancer

Online Identity Protection o Tor - Anonymity online (Plugin)

o History & Diff support

Backup & Restore

o File Backup

o Auto sync for remote blacklists

• Easy client configuration

Site to Site

Site to Site

exporter

o Tinc (Plugin)

OpenVPN

o WireGuard (Plugin)

Virtual Private Networks

Captive Portal

(BYOD)

o Auto rule update using

• Emerging Threats ETOpen

802.1Q VLAN support

o Max 4096 VLAN's

Link Aggregation & Failover

- o Failover o Load Balance
- O Round Robin
- O Cisco Ether Channel (FEC)
- 0 802.3ad LACP

Other Interface types

- o Bridged interfaceso Generic Tunnel Interface (GIF)
- Generic Routing
- Encapsulation

Network Address Translation

- Port forwarding
- o 1:1 of ip's & subnets
- o Outbound NAT o NAT 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 Plug & Play** o Fully supported

Dynamic DNS

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

DNS Forwarder O Host Overrides

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

DHCP Server

0 IPv4 & IPv6

Multi WAN

o Failover

o Aliases

• GPS

Load Balancer

multiple servers

Network Time Server

o Hardware devices

o Inline Prevention

SSL Blacklists

o Integrated rulesets

Pulse Per Second

o Balance incoming traffic over

Intrusion Detection & Prevention

o Relay Support

o BOOTP options

o Load balancing

DNS Filter

o Supports OpenDNS



Specifications and model comparison

Models	DEC677	DEC697
Software		
Preinstalled software	OPNsense [®]	OPNsense [®]
License	Open Source + 1 year free Business Edition	Open Source + 1 year free Business Edition
Hardware Specifications		
2.5 GbE RJ45 Ports [100/1000/2500Mbps]	4	4
USB Ports	1	1
Console Port	1	1
Internal Storage	32GB Solid State Flash [integrated uSD]	256GB NVMe Solid State Flash
Memory	4GB DDR3	8GB DDR3
CPU Cores	4 (1.8Ghz)	4 (1.8Ghz)
Virtual Interfaces (802.1q VLANS)1	4093	4093
System Performance		
Firewall Throughput	5000Mbps	5000Mpbs
Firewall Packets Per Second	420Kpps	420Kpps
Firewall Port to Port Throughput	2.30Gbps	2.3Gpbs
Firewall Port to Port Packets Per Second	195Kpps	195Kpps
Concurrent Sessions	3000000	700000
Firewall Latency (RTT)	125us	125us
Firewall Policies (Recommended Maximum)	10000	10000
IPsec VPN Throughput (AES256GCM16)	600Mbps	600Mbps
High Availability with State Synchronisation	Requires Two	Requires Two
Dimensions		
Height x Width x Length (mm)	22 x 185 x 134	22 x 185 x 134
Height x Width x Length (inches)	0.9 x 7.55 x 5.47	0.9 x 7.55 x 5.47
Form Factor	Desktop	Desktop
Weight (appliance only)	0.56Kg	0.6Кg
Environment		
Power Requirements	100-240VAC, 50-60Hz	100-240VAC, 50-60Hz
Power Consumption (Typical)	13W	13W
Heat Dissipation	44 BTU/hr	44 BTU/hr
Operating Temperature	0 to +40°C	0 to +40°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. Maximum PPS is a peak performance, measured using 500 byte packets. Firewall Port to Port package per seconds is the peak performance when using 1500 byte sized packages. Total Firewall Throughput is calculated by multiplying the maximum packets per second with a standard package size of 1500bytes. IPS performance is measured with aproximately 35000 rules enabled. IPsec 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 using netperf.