

OPNsense A10 Quad Core Rack Series

DEC2630, DEC2650, DEC2670



The **OPNsense A10 Quad Core Rack** secures your network with high-end features such as inline intrusion prevention, virtual private networking, two factor authentication, captive portal and filtering web proxy. The optional high availability setup ensures stable network performance with automatic failover and synchronised states, minimising disruption. Keep your network secure and the good packets flowing.



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)



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

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128GB SSD Offering Sufficient Space for Logging & Reporting



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



Hardware Assisted Encryption 600Mbps IPsec (AES256GCM16)

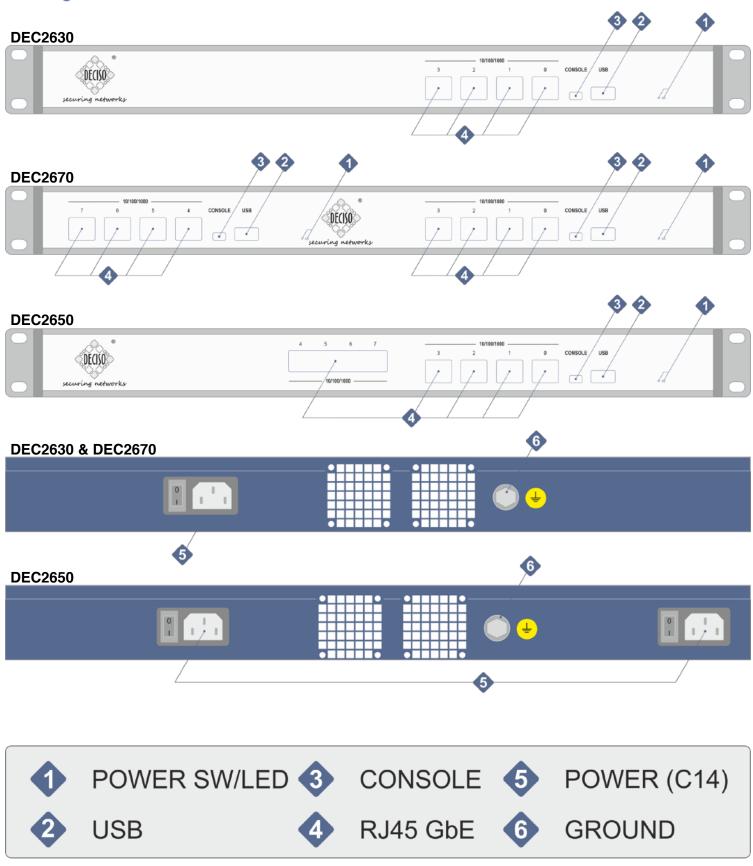
Securing Networks



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HARDWARE DUTCH QUALITY - MADE IN THE NETHERLANDS

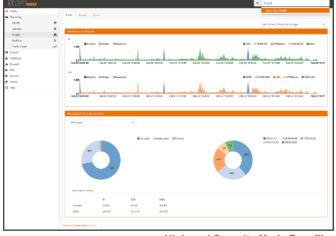


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SOFTWARE VERSATILE - OPEN SOURCE - FULLY FEATURED





High-end Security Made Easy™

OPNsense is Deciso's fast growing open source firewall and security platform released under an Open Source Initiative approved license. It's 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, utilise the integrated intrusion prevention capable of blacklisting based on SSL fingerprints and the two-factor authentication for safely connecting mobile users.

Keep full insight on the traffic flowing trough your firewall at all times, with its advanced Netflow capture, aggregate & reporting tool '**Insight**'.



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 and prioritise you voice over ip above other traffic. Backup your configuration to the cloud automatically, no need for manual backups.



Hotels & Campings

Hotels and campings usually utilise a captive portal to allow guests (paid) access to internet for a limited duration. Guests need to login using a voucher they can either buy or obtain for free at the reception. OPNsense has a build-in captive portal with voucher support and can easily create them on the fly.



School networks

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. Its easy to setup as no additional plugins nor packages are required.



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 & SOHO

Utilise the integrated site to site VPN (IPsec or SSL VPN) 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.



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 organisation

- Alias Support
 - · IP addresses
 - Port ranges
- Domain names (FQDN)
- 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 states per nost
 Limit new connections per
 - second
 - Define state timeout
 - · Define state type
- State types
- Keep
- Sloppy
- Modulate
- SynproxyNone
- Optimisation options
- Normal
- High latency
- Agressive

Conservative

Authentication

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

Accounting

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

SOFTWARE FEATURE OVERVIEW

- GUI
 - · SSH / Console
- Certificates
- Certificate Authority
 - Create or Import CA's
 - Create or Import Certificates

● Inline Prevention

Integrated rulesets

SSL Blacklists

· Feodo Tracker

SSL Fingerprinting

configurable cron

Typical Applications

Guest Network

Multiple Zones

Voucher Manager

Authenticators

Captive Portal

· Geolite2 Country IP

Auto rule update using

· 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

exporter

Tinc (Plugin)

OpenVPN

Road Warrior

Road Warrior

· Full mesh routing

ZeroTier (Plugin)

PPTP (Legacy)

● LT2P (Legacy)

High Availability

Caching Proxy

Multi interface

Blacklists

Transparent Mode

Support SSL Bump

Access Control Lists

Traffic Management

Virus scanning

Reverse Proxy

Backup & Restore

Category Based Web-filter

Auto sync for remote blacklists

External engine support (ICAP)

HAProxy - Load balancer (Plugin)

Tor - Anonymity online (Plugin)

ClamAV (Plugin / C-ICAP)

Online Identity Protection

ICAP (supports virus scan engine)

· Easy client configuration

VPN, SDN & SD-WAN

Automatic hardware failover

Configuration synchronisation

SSL Domain only (easy filtering)

Synchronised state table

IPsec

Template Management

History & Diff support

File Backup

Diagnostics

Aliases

Bogons

State Reset

ARP Table

NDP Table

Test Port

Trace route

Monit (Plugin)

Monitoring

e Ping

• DNS Lookup

Packet Capture

Zabbix Agent (Plugin)

Enhanced Reporting

Fully Integrated

CVS Exporter

Round Robin Data

Selection & Zoom

Network Monitoring

· 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

Netflow Exporter

Easy Upgrade

upgrades

· OpenSSL

LibreSSL

Audit Feature

Plugin Support

Online Documentation

Free & Searchable

ACL support

REST API

Live Traffic Monitoring

Version 5 & version 9

VMware tools (Plugin)

Xen Guest Utilities (Plugin)

Reboot warning for base

System Health

Exportable

Traffic Graph

Firmware

Detailed Aggregation

· Proactive System Monitoring

Network Flow Analyser 'Insight'

Graphical Representation

· Clickable and Searchable

State Summary
 Wake on LAN

SNMP

Cloud Backup

Monitor & Traps

Filter reload status

Top Users (pfTop)Firewall Tables

Firewall Info (pfInfo)

Current Open Sockets
 Show All States

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

Link Aggregation & Failover

Eink Aggregation & Fallov 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
- 802.1ad QinQ
- Network Address Translation
- Port forwarding
- 1:1 of ip's & subnets
- Outbound NAT
- NAT Reflection
- Traffic Shaping
- Limit bandwidth
- Share bandwidth
- Prioritise traffic
- Rule based matching
- Protocol
- Source
- Destination
- Port
- Direction
- IGMP Proxy
- For multicast routing
 - For mancast routing
 Universal Plug & Play
 Fully supported

Dynamic DNS

Custom

Selectable form a list

RFC 2136 support

• Domain Overrides

DNS Forwarder

Host Overrides

Host Overrides

A records

MX records

Supports OpenDNS

Access Lists

DHCP Server

IPv4 & IPv6

Multi WAN

Failover

Aliases
 Aliase
 Ali

• GPS

Relay Support
 BOOTP options

Load balancing

Load Balancer

multiple servers

Hardware devices

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Network Time Server

· Pulse Per Second

Balance incoming traffic over

Intrusion Detection & Prevention

DNS Filter

DNS Server



SPECIFICATIONS PERFORMANCE & FEATURES

	DEC2630	DEC2650	DEC2670
Hardware Specifications			
GbE RJ45 Ports [10/100/1000Mbps]	4	8	2 x 4
JSB Ports	1	1	2 x 1
Console Port	1	1	2 x 1
nternal Storage	128GB	128GB	2 x 128GB
Memory	4GB DDR3	4GB DDR3	2x 4GB DDR3
CPU Cores	4 (1.6Ghz)	4 (1.6Ghz)	2 x 4 (1.6Ghz)
/irtual Interfaces (802.1q VLANS)1	4093	4093	4093
System Performance			
irewall Throughput	3300 Mbps	3300 Mbps	3300 Mbps
Firewall Packets Per Second	250000	250000	250000
Firewall Port to Port Throughput	941Mbps	941Mbps	941Mbps
Firewall Port to Port Packets Per Second	122000	122000	122000
Concurrent Sessions	3000000	3000000	3000000
New Connections Per Second	35000	35000	35000
Firewall Latency (RRUL test average)	1.6ms	1.6ms	1.6ms
raffic Shaper Throughput	2000Mbps	2000Mbps	2000Mbps
raffic Shaper Packets Per Second	240000	240000	240000
Firewall Policies (Recommended Maximum) ¹	10000	10000	10000
Psec VPN Throughput (single tunnel)	600	600	600
SL VPN Throughput (single tunnel)	170Mbps	170Mbps	170Mbps
hreat Protection Throughput (IPS)	327Mbps	327Mbps	327Mbps
ligh Availability with State Synchronisation	Requires Two	Requires Two	Yes, External Sync
Dimensions			
leight x Width x Length (mm)	44 x 485 x 335	44 x 485 x 335	44 x 485 x 335
leight x Width x Length (inches)	1.74 x 19 x 13.2	1.74 x 19 x 13.2	1.74 x 19 x 13.2
Form Factor	Rack Mount 1U	Rack Mount 1U	Rack Mount 1U
Veight (Kg)	3,75	3,85	4,90
Invironment			
Power Requirements	100-240VAC, 50-60Hz	100-240VAC, 50-60Hz	100-240VAC, 50-60Hz
/laximum Current	0.8A	0.8A	0.8A (2 x)
Power Consumption (Typical)	20W	25W	20W (2 x)
leat Dissipation	85 BTU/hr	85 BTU/hr	170 BTU/hr
Dperating Temperature	0 to +45°C	0 to +45°C	0 to +45°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 system utilisation and port-to-port performance test in full duplex. Maximum PPS is measured using 216 byte packets. Latency is Measured using the Real Time Response Under Load test with active Traffic Shaper - shaping up to line speed - and the CoDel scheduling algorithm. IPS performance is measured using a http simulation with random sized small (400-800 bytes) send packages and IK-8K response packages with 150 simultaneous emulated users and 21000 rules enabled. SSL VPN is measured using AES256GCM16+SHA512 and total throughput is calculated based on system load.Concurrent sessions are based upon memory available, where one state consumes 1KB of memory and 1GB of memory is reserved for system tasks.

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