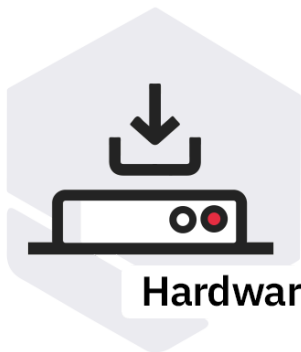




SNA8214 Hardware Appliance

POWERFUL AND EASY TO USE ADC



The complete solution for those seeking immediate performance. **SKUDONET SNA8214 Hardware Appliance** provides pre-configured hardware with its software already installed, offering a turnkey solution.

This **physical load balancer** combines advanced cybersecurity, high availability, and easy management, all in one device designed to meet the most demanding needs. Perfect for critical installations where stability and simplicity are paramount.



Massive Scalability

- Supports up to **40Gbps** of traffic throughput.
- Load balancing at **Layers 2, 3, 4, and 7 for WAN** uplinks, applications, services, and data centers.
- Advanced traffic distribution methods: weight-based, round robin, hashing, least connections, least response time, and symmetric distribution.
- Configurable persistence and session management, including **session replication in stateful clusters**.
- Inter-data center WAN load balancing with DNS-based **Global Server Load Balancing (GSLB)**.
- Automated and **customizable health checks** for servers and services.
- Scalable architecture, allowing for **increased CPU**, memory, and peripheral expansion via **2 available slots**.



Security

- Integrated Web Application Firewall (**WAF**) with OWASP rules for SQL injection (**SQLi**), cross-site scripting (**XSS**), botnet detection, and other application-layer threats.
- Support for custom **WAF rule files** and personalized error responses for blocked requests.
- **DDoS protection** engine with configurable per-service rules.
- Real-time and **automated threat intelligence** with over 200 preloaded blacklists, including botnets, spam lists, TOR nodes, anonymous proxies, and brute force hosts.
- **Role-Based Access Control (RBAC)** with LDAP/AD integration and SSH access control for administrators.
- **Full VPN support**: site-to-site IPsec, L2TP+IPsec, and remote server warrior mode.
- **Secure SSL/TLS support** with automatic Let's Encrypt certificate management.
- Compliance-ready with **A+ SSL** Labs rating and **PCI DSS** standards.



System

- **Compliance:** EMC: CE, FCC Class A/UL; RoHS compliant.
- Operating System upgraded to **Debian 12.5 LTS** for extended stability and support.
- **Optimized kernel** (6.1.90-10skudonet) for improved performance and networking capabilities.
- High availability with active-passive **clustering and stateful failover**, ensuring no session loss during node transitions.
- Enhanced logging and monitoring: **profiling logs for HTTP/S farms**, user-friendly log viewers, and extended IPDS filter logs.
- Centralized **Web Console with a Angular v18** interface, featuring improved UX, dark mode, and multi-language support.
- Fully programmable **REST+JSON API** for automation and integration.
- Improved syslog management with journald service disabled for performance.
- Support for **multiple network protocols** including TCP, UDP, SCTP, SIP, FTP, TFTP, HTTP, HTTPS, RDP, SSH, POP3, IMAP, SMTP, DNS, NTP, LDAP, LDAPS, Radius, WebSocket, and more.



Management

- **Advanced routing:** dNAT, sNAT, DSR, stateless dNAT, and custom static routing.
- **VLAN and Virtual IP** support for flexible network configurations.
- **Real-time block lists (RBL)** and Domain Name System-based Blackhole List (DNSBL) integration.
- Enhanced **SNMP monitoring** with multiple scope support.
- Session synchronization daemon improvements for **cluster stability**.

What About Performance?



+10 MILLION
concurrent users per
sec in layer 4



+140 THOUSAND
concurrent users per
sec in layer 7 HTTP



+120 THOUSAND
concurrent users per
sec in layer 7 HTTPS

8,600,000
TCP REQUESTS/SEC

480,000
HTTP REQUESTS/SEC

290,000
HTTPS REQUESTS/SEC



Appliance I/O



Hardware Specifications

CPU	Intel® Xeon E-223, Base Frequency 3.40 GHz with 6 cores x 2
Memory	16GB DDR4 2667 MHz (max. 4 x 32GB per DIMM)
LAN	12 1Gbe RJ45 (with 5 Pairs of Bypass) and 2x RJ45 1Gbe MGT
Storage	64 GB m2 SATA
Console	1 RS232
Expansion Slot	2 x PCIe
USB	2 x USB 3.0 type A
Power Supply	300W 1+1 ATX redundant power supply unit, AC 90~264V@47~63Hz
Dimensions	1U: 438(W) x 44(H) x 500(D) mm, or 17.2”(W) x 1.73”(H) x 19.68”(D)
Weight	8 kg
Operating Temperature	0 ~ 40°C, or 32°F ~ 104°F
Storage Temperature	-40° ~ 70°C, or -104°F ~ 158°F
Operating Humidity	5 ~ 90%, non-condensing
Cooling System	2 cooling silent fans
Certification EMC	CE Class A, FCC Class A, RoHS
IPMI	Yes (Optional IPMI Card)



Caption

F1	LCM
F2	2 USB
F3	LCM management
F4	Console and IPMI
F5	2 Mgmt
F6	LED indicators
F7	12 1Gbe Embedded NICS
F8	Optional PCIe expansion slot
F9	Optional PCIe expansion slot
R1	Cooling fans
R2	Power switch
R3	Single power supply
R4	LED indicators

Optional Expansion Modules

E801	8 ports x 1Gb RJ45
F240	2 ports x 40Gb QSFP
F410	4 ports x 10Gb SFP

MORE THAN 500

Customers worldwide

MORE THAN 60

Countries

MORE THAN 90%

Support renewal rate

Contact us at info@skudonet.com

Visit our website SKUDONET.com

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