

## **HALTDOS ROBIN TECHSPECS**

Base Models	HD-RBN-4100	HD-RBN-4600	HD-RBN-5100	HD-RBN-5120	HD-RBN-5400	HD-RBN-6200
	TIGATION PERFORMAN					100
Throughput Range	upto 4 Gbps 22K (RSA 2K)	upto 24 Gbps	upto 48 Gbps	Upto 48 Gbps	upto 64 Gbps	upto 120 Gbps
SSL / TLS Connections per Second	15K (ECC)	40K (RSA 2K) 25K (ECC)	40K (RSA 2K) 25K (ECC)	40K (RSA 2K) 25K (ECC)	95K (RSA 2K) 48K (ECC)	95K (RSA 2K) 48K (ECC)
SSL Throughput	4 Gbps	20 Gbps	40 Gbps	40 Gbps	50 Gbps	100 Gbps
TCP Connection Tracking	1M – 4M	4M – 10M	10M – 15M	40M – 50M	10M – 25M	20M – 35M
Induced Latency	< 50 microseconds (μs)					
	RDWARE SPECS					
Processor	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon
CPU Cores Memory	12 32 GB	24 64 GB	32 64 GB	32 128 GB	40 96 GB	48 128 GB
Hard Disk	256 GB SSD	512 GB SSD	1 TB SSD	1 TB SSD	2 TB SSD	2 TB SSD
			loading & compression opti		2 10 000	2 10 000
Additional Specs			e) or Non-FIPS compliant H			
Form Factor	1U/2U Rack Mount Serv					
Power Supply		ly (Hot Swappable) AC 17	'0-240V, 50 Hz			
Operating Temperature Humidity	0° – 40° C					
Humaity	8% - 95% (non-condensing)  Hard Disk and Memory can be customized over the base model					
INS	SPECTION PORTS		Tidi d Blok dila Mollio	ry dan be destermized ov	or the base model	
1 GE Ports	8	8	4	4	-	-
10 GE Ports	2	4	4	4	8	8
25 GE Ports	-	-	-	-	=	-
40 GE Ports	-	-	2	2	2	4
100 GE Ports	-	-	- No. of ports can	- n be customized over the	- hase model	-
OU	T OF BAND PORTS		No. or ports car	i be customized over the	base model	
1 GE (RJ-45) Ports	2	2	2	2	2	2
Console (RS232/RJ45) Ports	1	1	1	1	1	1
HA Ports (RJ-45/SFP/SFP+)	1	1	1	1	1	1
	CHNOLOGY, CERTIFICA					
Platform		atform (EAL 2+ Certified) Itelligence, Machine Learn	ina			
Technology  Bandwidth License	- 5	3,	possible without hardware	replacement unto may cur	norted handwidth on hard	ware
Additional Licenses		F, DDoS, SLB & DNS Fire		replacement upto max sup	ported baridwidth on hard	wale
Certification		iant, Common Criteria EAL				
Support	24x7 Support with dedic					
Warranty	1 year software and har					
TAC Support	TAC support in India					
	ERATION MODE					
Network Operations	Inline L3					
IP Stack	Dual IPv4 & IPv6 stack	2D -t				
IP Fragmentation Jumbo Frames	IP defragmentation & TCP stream assembly					
Tunnelling Protocols	Yes VLAN, MPLS, GRE, L2TP, GTP, IPinIP					
Dynamic Routing Protocols	BGP, OSFP, RIP v1, RIP v2					
Link Aggregation	Support for link bundling via LACP					
	H AVAILABILITY					
Multiple Appliances		Active – Passive with VRF				
Management Modes			oliance) with Haltdos Hawk			
Secure Communication	Secure communication between centralized management and HA appliances for state synchronization					
Secure Communication		between centralized mana	gement and HA appliances	s for state synchronization		
INT	EGRATION FEATURES			s for state synchronization		
INT Custom Threat Intel	Integration with 3 <sup>rd</sup> party	/ Threat Intelligence (TI) fe	eeds	, in the second		
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Traffic Shaping	Traffic shaping and QoS on inbound and outbound links			
	LB FEATURES			
Global Load Balancing	Routing traffic across multiple data centers based on health checks			
Local Load Balancing	Outbound WAN link selection based on link health			
Operation Mode	Option for Authoritative or Recursive operational modes			
Routing Rules	Custom rules for Static and Policy based routing			
Network Mode	Support DNS over HTTP, UDP, TCP & SSL as well as DNSSEC			
DNS Firewall	Protecting DNS infrastructure from bot attacks			
DDOS MITIGATION FEATURES (ADDITIONAL LICENSING)				
Comprehensive Protection	Layer 3 to Layer 7 protection covering Network, Protocol, Application, Reflection / Amplification and 0-day DDoS attacks			
DDoS Detection & Mitigation	Attack detection & mitigation in less than 18s and 10s respectively			
Block Actions	Drop Packet, Terminate Connection (RST), Blacklist (temporary or permanent), Send Challenge (TCP, HTTP, DNS), Rate Limiting			
Hybrid DDoS Integration	Support for integration with Haltdos Cloud Scrubbing or ISP clean pipe services			
Bi-Directional	Support for both inbound and outbound traffic protection			
Deep Packet Inspection	Protection against malformed packets (TCP, UDP, ICMP, Ping of death, DNS, HTTP, SIP, SNMP, IPv4, IPv6, Fragmented packets, etc.)			
Enforce RFC Compliance	Protection against misbehaving clients sending invalid or out of state packets			
Bot Protection	Automatic detection and blocking of bot traffic with support for manual bot policy			
Behaviour Analysis	Network behaviour analysis for anomaly detection and packet scoring technology			
Multiple Security Profiles	Support for multiple security profiles for enforcing different policy for different sub-networks (Src, Dst IP Prefix, VLAN)			
Rate Limit & QoS Management	Rate limit capability for bandwidth and QoS management			
Blacklist / Whitelist	Support for temporary or permanent Blacklisting and Whitelisting based on IP, IP prefix, domain, country, etc			
Malicious Source Protection	Protection against TOR IP, Bad Reputation IP / domain, dark IP, malicious Bots, proxies, resolvers, etc			
Custom Signatures	Support for user defined custom rules with support for REGEX and byte matching			
SYN Flood Protection	TCP SYN flood protection with SYN Proxy and connection aging			
Challenge & Response	Support for TCP, HTTP, DNS challenge and response for validation of traffic from suspicious sources			
Connection Based Protection	Protection against TCP connection DDoS attacks such as sockstress, connection / src, zombie flood, SSL renegotiations, etc			
DNS Protection	Built-in DNS firewall capability for protecting DNS infrastructure against DNS DDoS attacks (Water Torture, NXDomain, etc.)			
L7 DDoS Protection	Protection against low & slow attacks such as Slowloris, R.U.D.Y., slow HTTP GET / POST, etc			
Machine Learning Protection	Automatic learning counter measures and dynamic signature creation upon attack detection			
Signatures for Known	Built-in rules for known vulnerabilities (server, web, mail, FTP, SIP, SQL, DNS, etc.)			
Vulnerabilities				

Version: v6.2

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