

HALTDOS FALCON TECHSPECS

Base Models	HD-FAL-4120	HD-FAL-4620	HD-FAL-5120	HD-FAL-5420	HD-FAL-6220	HD-FAL-6700
MITIGATION PERFORMANCE						
Throughput Range	upto 4 Gbps	upto 24 Gbps	upto 48 Gbps	upto 64 Gbps	upto 120 Gbps	upto 150 Gbps
Supported TCP Sessions			Unlimit			
DDoS Attack Flood Prevention Rate	1M – 5M	5M – 20M	10M – 30M	25M – 50M	30M – 80M	30M – 80M
SSL / TLS Connections per Second	22K (RSA 2K) 15K (ECC)	40K (RSA 2K) 25K (ECC)	40K (RSA 2K) 25K (ECC)	95K (RSA 2K) 48K (ECC)	95K (RSA 2K) 48K (ECC)	95K (RSA 2K) 48K (ECC)
SSL Throughput	4 Gbps	20 Gbps	40 Gbps	50 Gbps	100 Gbps	100 Gbps
TCP Connection Tracking	1M – 4M	4M – 10M	10M – 15M	10M – 25M	20M – 35M	20M – 35M
Induced Latency			< 50 microsec			
Attack Detection Time Attack Mitigation Time			< 18s < 10s			
HARDWARE SPECS			< 108			
Processor	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon	Intel Xeon
CPU Cores	12	24	32	40	48	48
Minimum Memory Minimum Hard Disk	32 GB	64 GB 512 GB SSD	64 GB 1 TB SSD	96 GB 2 TB SSD	128 GB 2 TB SSD	128 GB 2 TB SSD
	256 GB SSD		Hardware HSM for SS			Z 1B 22D
Additional Specs			r FIPS-140-2 (additional			
Form Factor	1U/2U Rack Mount Sen					
Power Supply	Redundant Power Supply (Hot Swappable) AC 170-240V, 50 Hz					
Operating Temperature Humidity	0° – 40° C 8% - 95% (non-condens	sina)				
Transact	`	and Memory can be cus	stomized over the bas	se model		
INSPECTION PORTS						
1G	8	8	-	-	-	-
10G 25G	-	2	4	8 -	8 -	8
40G	-	-	2	2	4	-
100G	-	-	-	-	-	2
No. of ports can be customized over the base model						
OUT OF BAND PORTS 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
Input/Output (USB)	2	2	2	2	2	2
TECHNOLOGY, CERTIFICATION & SUPP		atform (FAL 2+ Certified)				
Technology	Haltdos Platform – hdPlatform (EAL 2+ Certified) Signature with Threat Intelligence, Machine Learning					
Bandwidth License	Bandwidth capping on provided license. Upgrade possible without hardware replacement upto max supported bandwidth on hardware					
Additional Licenses	Optional license for WAF, LLB, GSLB, SLB & DNS Firewall					
Certification Support	FCC, ROHS, CE compliant, Common Criteria EAL 2+ 24x7 Support with dedicated Account Manager					
Warranty	24X/ Support with dedicated Account Manager 1 year software and hardware maintenance					
TAC Support	TAC support in India					
OPERATION MODE						
Network Operations Stateful Mode	Transparent L2 or Inline L3 Stateful (Symmetric) or Stateless (Asymmetric) mode					
Deployment Modes	Offline (SPAN port or Flow), Inline, Out-of-path					
Supported Flow Ingestion	Netflow v5, Netflow v9, sFlow, IPFIX					
IP Stack	Dual IPv4 & IPv6 stack					
IP Fragmentation Jumbo Frames	IP defragmentation & TCP stream assembly Yes					
Mitigation Modes	Pes Bypass, Record (Report Only), Learning, Mitigation (Block and Report)					
Tunnelling Protocols	VLAN, MPLS, GRE, L2TP, GTP, IPinIP					
Dynamic Routing Protocols	BGP, OSFP, RIP v1, RIP v2					
Link Aggregation Block Actions		Support for link bundling via LACP Drop Packet, Terminate Connection (RST), Blacklist (temporary or permanent), Send Challenge (TCP, HTTP, DNS), Rate Limiting				
HIGH AVAILABILITY	2.0p. donot, rominate	2 STATE OF THE PROPERTY OF THE	(topordry of pointa	,, cond oridinorige	(. 5. , , DNO), Na	
Hardware Bypass	Internal or External					
Software Bypass	Yes					
Multiple Appliances Management Modes	N + 1 Active - Active or Active – Passive with VRRP equivalent Standalone / Centralized Management (VM or appliance) with Haltdos Hawk					
Secure Communication		between centralized mana			ization	
INTEGRATION FEATURES			11			
Custom Threat Intel		Threat Intelligence (TI) fe				
Storage and Export NIMS Integration	Local retention of logs, reports and events. Support for export to 3 rd party storage Support for SNMP, NTP / SNTP, DNS, Web Proxy integration					
Notification Integration	Support for SNMP, NTP / SNTP, DNS, Web Proxy Integration Notification & Logging via SNMP, SMTP, SMS Gateway and 3rd party integration via API hooks, CI/CD, Kubernetes					
SIEM Integration	Support for integration with SIEM and Syslog services					
AAA Integration	Support for integration via RADIUS and TACACS+					
Identity Management	Inbuilt with support for integration with AD / SAML / LDAP Support for integration with Haltdee Cloud Scrubbing or ISP clean pine services					
Hybrid DDoS Integration Export IOCs	Support for integration with Haltdos Cloud Scrubbing or ISP clean pipe services Support for exporting attacking IOCs via STIX / TAXII					
MANAGEMENT FEATURES	- sapport for exporting at	accounting 1000 via 011// 1/				
Graphical User Interface (GUI)		er HTTPs with support fo				
Command Line Interface (CLI)	Command Line Interface over SSH or console port					
API Integration System Management	Yes (XML or JSON) IPMI 2.0 Compliant					
Logging	Centralized logging of system, services, MIS, incidents					
Dashboards		ashboards with custom di		tom dashboards		
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System Salaus Dashboard Reporting Re						
RBAC Administration Backup Policy Management Estats / Alerts Network Forensic Attack Forensic Attack Forensic Haltoo Threat Stream Updates DOS MITIGATION FEATURES Comprehensive Protection Bericolonal Deep Packet Inspection Forensic Analysis Both Analysis Both Protection Bericolonal Bericolonal Deep Packet Inspection Forensic Analysis Both Analysis Multiple Security Protection Bericolonal Behaviour Analysis Multiple Security Protection Behaviour Analysis Multiple Security Protection Customs Signatures Syn Picod Protection Customs Signatures Syn Picod Protection Challenge & Responses Connection Based Protection Challenge & Responses Connection Based Protection Customs Signatures Syn Picod Control Challenge & Responses Connection Based Protection Customs Signatures Syn Picod Protection Customs Signatures Syn Picod Control Contr	System Status Dashboard	Status dashboard for 1-click health check				
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Network Mode Support DNS over HTTP, UDP, TCP & SSL as well as DNSSEC						
DNS Firewall Protecting DNS infrastructure from bot attacks						
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Version: v6.1

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