

Product: RAVEN 5700 ☑

RAVEN Next Generation Firewall - RAVEN 5700



Product Description

1U rack mount, 6 × fixed FE/GE TX ports and 4 × fixed 100/1000M SFP slots, 2 × extended media module slots, redundant PSU

Technical Specifications

Product description

Type:	RAVEN 5700
Name:	RAVEN 5700
Description:	1U rack mount, 6 × fixed FE/GE TX ports and 4 × fixed 100/1000M SFP slots, 2 × extended media module slots, redundant PSU
Part Number:	942999701
Port type and quantity:	6 × fixed FE/GE TX ports, 4 × fixed 100/1000M SFP slots, 2 × USB, 1 × RJ45 console port
Heat Radiation Type:	Fixed fan
Extended Slot:	2 × extended media module slots
Storage:	60G SSD

Performance and Capacity

Performance:	60G (Firewall), 23G (enable NGFW)
Connections per Second:	320000/s (Firewall), 89000/s (enable NGFW)
IPSec VPN default tunnel:	5000
Virtual FW:	2/5
Concurrent Connections:	3.2 million

More Interfaces

Power Supply:	2 × fixed redundant PSUs

Power requirements

Operating Voltage:	100-240VAC, 47-63Hz, redundant PSU supported

Ambient conditions

Permissible Humidity (Storage/Transport):	5% to 95%
Operating temperature:	-5-+45 °C
Storage/transport temperature:	-20°C to +70 °C
Relative humidity (non-condensing):	5-85 %

Mechanical construction

Width:	435 mm
Height:	44.5 mm
Depth:	500 mm
Weight:	13.2 kg
Mounting:	Rack mount

Software Specifications

Security Access control Access control time-based policy. Support DPI identification in access control.	Security Access control	Access control based on network interface, security zones, source/destination IP, domain name, port, application and customer; support time-based policy. Support DPI identification in access control.
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		Support security policies pre-compile during committing configuration, complex security policies will not reduce chassis performance
		Support default policy, permit all or deny all is available for all policies
		Support logging for policy match, include flow and hitting
		Support shadowing checking in security policies
		Support session management for special security policy
		Support group based security policies management
	APT (Advanced Persistent Threat) protection	Chassis has another dedicated hardware based APT engine. Sandbox is used to detect malicious code. APT engine has abilities for protecting long-term detection attack and 0 DAY attack
		APT engine can process at least 20 types of files, such as exe, rtf, Office file, rar, zip, pdf and so forth.
	Raven Eye cloud security protection	Raven can sync all system libraries from Raven Eye. Raven is able to prevent either known or unknown threaten when it is captured by Raven Eye in past 6 hours
		Support both IPv4 and IPv6 environment.
		Support one-key process for captured host
	IPS	Support flow based protocol analysis and protocol tree algorithm, support both IPv4 and IPv6
		Attack sample library has more than 3600 entries, weekly update, and support online user manual
		Support online, bypass and complex deployment
	Anti-Virus	Based on Raven eye cloud security center, Raven has more than 36k virus samples, weekly update
		Support HTTP, FTP, POP3, IMAP and SMTP attachment scanning
		Support customized scan template
		Anti-virus policy can base on interface, security zone, address, user, service and time
		Support online, bypass and complex deployment, support both IPv4 and IPv6
	Web application protection	Support protection for SQL injection and XSS script attack, support Web application security in IPv4/IPv6 protection
	DDoS	Support TCP flooding protection, include packet rate, source host packet rate and destination packet rate limitation. SYN cookie, dropping violation packets or only alarm are available protection actions
		Support UDP flooding protection, include packet rate, source host packet rate and destination packet rate. Dropping violation packets and only alarm are available protection actions
		Support ICMP flooding protection, include packet rate, source host packet rate and destination packet rate. Dropping violation packets and only alarm are available protection actions
		Support inhibition for malicious scanning, such as TCP scanning, UDP scanning and ICMP scanning
		Support protection for Jolt2, Land-Base, Ping of death, Syn flag, Tear drop, Winnuke, Smurf
	Session Control	Total connection control based on interface, address, user, application and time
		CPS control based on interface, address, user, application and time
		Source total connection control based on interface, address, user, application and time
		Source CPS suppression control based on interface, address, user, application and time
		Destination total connection control based on interface, address, user, application and time
		Destination CPS control based on interface, address, user, application and time
	ARP protection	Support IP-MAC mapping protection and unique mapping validation
		Support protection of ARP spoofing. Raven support static MAC learning or reverse flooding to correct ARP to strike back the attacker
		Support ARP suppression to defense ARP flooding
	Deny List	Support IP based deny list, deny list up to 30K entries
		Support import/export operation for deny list
Application-based control	Application Identification	App ID engine based on DPI, DFI and network behavior analysis
	Application control	Support application identification by classes, such as: IM, class-based URL management, social media, download tools, video application and so forth
	Email application control	Support deep email inspection based on parameters such as email title, email body, attachments and protocol commands
	Application library	Application library support at least 1000 applications
	Application library update	Application library update support both online and offline operation, weekly update
	IPv4/IPv6 support	Support application behavior management in IPv4/IPv6
Traffic control	Token bucket	Multi-level token bucket mechanism, minimum particle size 1K bps
	Flexible QoS	Support QoS policy on physical interface and VLAN interface
	Application based QoS	QoS policy support application traffic inspection
	Hierarchical QoS	Support 4-level nesting HQoS, each level has 64 queue
	Per-user bandwidth control	Support assign per-user bandwidth schedule in customer communication for upstream traffic and downstream traffic
	Bandwidth reserve	Support to configure upstream bandwidth and downstream bandwidth
	Priority queue	Support priority queue
	Shaping	Support shaping
Network	Deployment	Support routing mode and transparent mode firewall, support complex deployment
	IPv4/IPv6 dual stack	Support IPv4/IPv6 dual stack, all functions can work both under IPv4 and IPv6
	Physical interface	Support static IP address and DHCP client, support multiple addresses under interface
	802.1Q VLAN	Support 4096 VLANs
	LAG	Support LACP and static LAG. Load balancing mode can be configured.
	2.0	
	GRE	Support GRE tunnel

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Mechanical stability

IEC 60068-2-6 vibration:	1 mm, 2 Hz-13.2 Hz, 90 min.; 0.7 g, 13.2 Hz-100 Hz, 90 min.; 3.5 mm, 3 Hz-9 Hz, 10 cycles, 1 octave/min.; 1 g, 9 Hz-150 Hz, 10 cycles, 1 octave/min
IEC 60068-2-27 shock:	15 g, 11 ms duration, 18 shocks

EMC interference immunity

EN 61000-4-2 electrostatic discharge (ESD):	4 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field:	10V/m (80-1000MHz), 3V/m (1000-6000MHz)
EN 61000-4-4 fast transients (burst):	2 kV power line, 1 kV data line
EN 61000-4-5 surge voltage:	power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line
EN 61000-4-6 Conducted Immunity:	10 V (150 kHz-80 MHz)
EN 61000-4-8 power freq magnetic field:	30A/m

EN 61000-4-11 voltagedips,shortinterrupt:	0%(20ms), 40%(300ms), 70%(500ms), 0%(5s)

EMC emitted immunity

EN 55032:	EN 55032 Class A
EN 61000-3-2:	EN 61000-3-2 Class A
EN 61000-3-3:	EN 61000-3-3
FCC CFR47 Part 15:	FCC 47CFR Part 15, Class A

Approvals

FCC:	Compliant
China Network Access Certificate:	Compliant
RoHS Compliant:	RoHS((EU) 2015/863) and RoHS(GB/T26572-2011) compliant

Scope of delivery and accessories

Accessories to Order Separately:	SFP, media module
Scope of delivery:	1 × device, 1 × grounding wire, 2 × power cords, 1 × console cable, 1 × Cat5UTP 2M, 1 × installation package

History

Update and Revision:	Revision Number: 0.16 Revision Date: 05-14-2024

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