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DefensePro Tech Specs

	DefensePro 6	DefensePro 20	DefensePro 60	DefensePro 200	DefensePro 400
PERFORMANCE					
On-Demand Scalable Throughput Licenses	DP model 6-02 - 200 Mbps DP Model 6-05 - 500 Mbps DP Model 6-1 - 1 Gbps DP Model 6-2 - 2 Gbps DP Model 6-3 - 3 Gbps	DP model 20-2 - 2 Gbps DP model 20-4 - 4 Gbps DP model 20-8 - 8 Gbps DP model 20-12 - 12 Gbps	DP model 60-10 - 10 Gbps DP model 60-20 - 20 Gbps DP model 60-40 - 40 Gbps	DP model 200-80 - 80 Gbps	DP model 400-160 - 160 Gbps
Max Mitigation Capacity/ Throughput	6 Gbps	20Gbps	60Gbps	200Gbps	400Gbps
Max Legit Concurrent Sessions	3000000	12,000,000	12,000,000	18,000,000	18,000,000
Max Attack Concurrent Sessions	Unlimited				
Max DDoS Flood Attack Prevention Rate	5,800,000 pps	25,000,000 pps	25,000,000 pps	330,000,000 pps	330,000,000 pps
SSL/TLS Connections per Second	20KCPS (RSA 2K)	95KCPS (RSA 2K)	95KCPS (RSA 2k)	-	-
Latency	< 60 micro seconds				
Real-Time Signatures	Detect and protect attacks in less than 18 seconds				
INSPECTION PORTS					
10/100/1000 Copper Ethernet	6	-	-	-	-
1 GE / 10 GE	2 (SFP+)	24 (SFP+)	24 (SFP+)	20 (SFP+)	20 (SFP+)
40 GE	-	-	-	4 (QSFP+)	4 (QSFP+)
100 GE	-	-	-	4 (QSFP28)	4 (QSFP28)
MANAGEMENT PORTS					
10/100/1000 Copper Ethernet	2				
Management Console	RJ-45				
OPERATION MODE					
Network Operation	Transparent L2 Forwarding/IP Forwarding				
Deployment Modes	In-line; SPAN Port Monitoring; Copy Port Monitoring; local out-of-path; Out-of-path mitigation (scrubbing center solution)				
Tunneling Protocol	VLAN Tagging, L2TP, MPLS, GRE, GTP, IPinIP				
IPv6	Yes				
Jumbo Frame	-	Supported			
Block Actions	Drop packet, reset (source, destination, both), suspend (source, src port, destination, dest port or any combination), Challenge-Response for TCP, HTTP and DNS suspicious traffic	Drop packet, Challenge Response			
HIGH AVAILABILITY					
Fail-open / fail-close[1]	Internal fail-open/fail-close for integrated copper ports; Internal fail-close for fiber ports or optical transceivers (i.e. SFP+)	Internal fail-close for optical transceivers (i.e. SFP+)		Internal fail-close for optical transceivers (e.g. SFP+, QSFP, QSFP28)	
Dual Power Supply	Yes, hot swappable				
PHYSICAL					
Dimensions (W x D x H) mm	436 x 406 x 44 mm (1U) EIA Rack or Standalone: 482 mm (19in)	436 X 480 X 88 mm (2U)	436 X 480 X 88 mm (2U)	424 x 600 x 88 mm (2U) EIA Rack or Standalone: 482 mm (19in)	424 x 600 x 88 mm (2U) EIA Rack or Standalone: 482 mm (19in)
Weight	Single power supply: 6 Kg (13.2 lbs) Dual power supply: 7 Kg (15.4 lbs)	11.2 kg (24.7 lbs)	11.2 kg (24.7 lbs)	18.7 kg (41.2 lbs)	18.7 kg (41.2 lbs)
Power Supply (Auto-range)	AC:100-120V/200-240V, 47-63 Hz DC: -36 - -72V	AC: 100-120V/200-240V, 47-63 Hz	AC: 100-120V/200-240V, 47-63 Hz	AC:100-120V/200-240V, 47-63 Hz DC: -36 - -72V	AC:100-120V/200-240V, 47-63 Hz DC: -36 - -72V
Power Consumption	140W	Dual PS: 320W		890W	
Heat Dissipation	480 BTU/h	Dual PS: 1088 BTU/h		2930 BTU/h	
Operating Temperature	0-40°C (32-104°F)				
Humidity	5% to 95%, not concentrated				
Safety	cTUVus, EN/IEC 60950-1 (CB), CCC, IEC 60950-1, GB4943, CNS 14336				
EMI/EMC	USA Title 47 Part 15; EMC 2014/30/EU; LVD 2014/35/EU; FCC Part 15B (Class A); CS03; ETSI EN 300 386 V2.1.1 (2016-07); EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 32, Brazil ANNEX TO RES Nº 442, Japan V-2/2015.04 & V-3/2015.04, China GB 9254-2008, Russia CU TR 020 2011, Korea KN 32/35, Taiwan CNS 13438				
Compliance	RoHS II (EU directive 2011/65/EU				
Warranty	1-year hardware and software maintenance				
Support	Certainty Support Program				

[1] External fiber fail-open switch is available at additional cost.

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DefensePro Tech Specs

LEGACY PLATFORMS

	x06 Series	x016 Series	x412 Series	x420 Series
PERFORMANCE				
On-Demand Scalable Throughput Licenses[1]	DP model 206 - 200 Mbps DP model 506 - 500 Mbps DP model 1006 - 1 Gbps DP model 2006 - 2 Gbps	DP model 1016 - 1 Gbps DP model 2016 - 2 Gbps DP model 3016 - 3 Gbps	DP model 1412 - 1 Gbps DP model 2412 - 2 Gbps DP model 4412 - 4 Gbps DP model 8412 - 8 Gbps DP model 12412 - 12 Gbps	DP model 10420 - 10 Gbps DP model 20420 - 20 Gbps DP model 30420 - 30 Gbps DP model 40420 - 40 Gbps
Max Mitigation Capacity/ Throughput	3Gbps	3Gbps	18Gbps	60Gbps
Max Legit Concurrent Sessions	2,000,000		4,000,000	6,000,000
Max Attack Concurrent Sessions	Unlimited	Unlimited	Unlimited	Unlimited
Max DDoS Flood Attack Prevention Rate	1,000,000 pps	1,000,000 pps	10,000,000 pps	25,000,000 pps
Latency	< 60 micro seconds			
Real-Time Signatures	Detect and protect attacks in less than 18 seconds			
INSPECTION PORTS				
10/100/1000 Copper Ethernet	4	12	8	-
1 GE	2 (SFP)	4 (SFP)	4 (SFP)	20 (SFP+)
10 GE	-	-	4 (XFP)	
40 GE	-	-	-	4 (QSFP+)
100 GE	-	-	-	-
MANAGEMENT PORTS				
10/100/1000 Copper Ethernet	2			
Management Console	RJ-45	RS-232		RJ-45
OPERATION MODE				
Network Operation	Transparent L2 Forwarding			Transparent L2 Forwarding/IP Forwarding
Deployment Modes	In-line; SPAN Port Monitoring; Copy Port Monitoring; local out-of-path; Out-of-path mitigation (scrubbing center solution)			
Tunneling Protocol	VLAN Tagging, L2TP, MPLS, GRE, GTP, IPinIP			
IPv6	Yes			
Jumbo Frame	Supported			
Block Actions	Drop packet, reset (source, destination, both), suspend (source, src port, destination, dest port or any combination), Challenge-Response for TCP, HTTP and DNS suspicious traffic			
HIGH AVAILABILITY				
Fail-open / fail-close[2]	Internal fail-open/fail-close for integrated copper ports; Internal fail-close for fiber ports or optical transceivers (e.g. SFP, SFP+, QSFP, QSFP28)			
Dual Power Supply	Optional, hot swappable		Yes, hot swappable	
Advanced Internal Overload Mechanism[3]	Yes	Yes	Yes	Yes
Active-Passive Cluster	Yes	Yes	Yes	Yes
PHYSICAL				
Dimensions (W x D x H) mm	424 x 457 x 44 mm (1U)	424 x 600 x 44 mm (1U) Dual PS: 424 x 600 x 88 mm (2U)	424 x 600 x 88 mm (2U)	424 x 537 x 88 mm (2U) EIA Rack or Standalone: 482 mm (19 in)
Weight	Single PS: 7.2 kg (15.9 lbs) Dual PS:8.7 kg (19.2 lbs)	Single PS: 9.5 kg (20.9 lbs) Dual PS: 10.9 kg (24.0 lbs)	18.0 kg (39.0 lbs)	15.1 kg (33.2 lbs)
Power Supply (Auto-range)	AC: 100-120V/200-240V, 47-63 Hz DC: -36 – -72V	AC: 100-120V/200-240V, 47-63 Hz DC: -36 – -72V		AC: 100-120V/200-240V, 47-63 Hz DC: -36 – -72V
Power Consumption	Single PS: 177W Dual PS: 147W	Single PS: 302W Dual PS: 312W	OnDemand Switch 3 S1 -451W OnDemand Switch 3 S2 -476W	634W
Heat Dissipation	Single PS: 604 BTU/h Dual PS: 501 BTU/h	Single PS: 1029 BTU/h Dual PS: 1064 BTU/h	OnDemand Switch 3 S1 - 1538 BTU/h OnDemand Switch 3 S2 - 1623 BTU/h	2162 BTU/h
Operating Temperature	0-40°C (32-104°F)			0-40°C (32-104°F) 0-55°C (32-131°F) for DP x420 NEBS
Humidity	5% to 95% (non-condensing)			
Safety	cTUVus, EN/IEC 60950-1 (CB), CCC, IEC 60950-1, GB4943, CNS 14336			
EMI/EMC	USA Title 47 Part 15; EMC 2014/30/EU; LVD 2014/35/EU; FCC Part 15B (Class A); CS03; ETSI EN 300 386 V2.1.1 (2016-07); EN 61000–3–2, EN 61000–3–3, AS/NZS CISPR 32, Brazil ANNEX TO RES Nº 442, Japan V-2/2015.04 & V-3/2015.04, China GB 9254-2008, Russia CU TR 020 2011, Korea KN 32/35, Taiwan CNS 13438			
Other Compliance/Certifications	RoHS II ,RoHS CN ,REACH & Conflict minerals			RoHS II ,RoHS CN ,REACH & Conflict minerals, NEBS Level 3
Warranty	1-year hardware and software maintenance			
Support	Certainty Support Program			

[1] Throughput is measured at the egress of the DP and includes only legitimate traffic (Dropped packets are not calculated in the license).
[2] External fiber fail-open switch with SFP ports is available at additional cost.
[3] Overload mechanism is designed to obtain maximum security coverage under extreme traffic loads.

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DefensePro Tech Specs

	DefensePro VA
Hypervisor	KVM kernel 3.19, QEMU 2.0, VMware (ESX server versions: 5.1, 5.5, 6.0)
Minimum VM requirements	2 vCPUs, 8GB RAM, 10GB storage
PERFORMANCE*	
OnDemand Scalable Throughput Licenses	DefensePro VA 200 Mbps, 500 Mbps, 1 Gbps, 2 Gbps, 5 Gbps, 10 Gbps, 20 Gbps*
Max Mitigation Capacity/Throughput	20 Gbps per DefensePro VA*
Max Legit Concurrent Sessions	1,000,000 sessions per vCPU
Max Attack Concurrent Sessions	Unlimited
Max DDoS Flood Attack Prevention Rate	Up to 950 KPPS per vCPU
Latency	< 60 micro seconds
Real-time Signatures	Detect and protect attacks in less than 18 seconds
INSPECTION PORTS	
10 GE	2 (Intel® Ethernet Server Adapter X520, 10 GbE; Intel® Ethernet Controller XL710, 40 GbE)
MANAGEMENT PORTS	
Ethernet	Via Virtual interface (virtio)
Management Console	KVM Virsh; Vmware Serial Port
OPERATION MODE	
Network Operation	Transparent L2 Forwarding
Deployment Modes	In-line
Tunneling protocol	VLAN Tagging, L2TP, MPLS, GRE, GTP, IPinIP
IPv6	Yes
Jumbo Frame	Up to 2KB
Block Actions	Drop packet, Challenge, Response for TCP, HTTP and DNS suspicious traffic
HIGH AVAILABILITY	
Fail-open / fail-close	N/A
Advanced internal overload mechanism	N/A
Active-passive cluster	N/A
Warranty	Standard warranty for 90 days
Support	Certainty Support Program

* 20Gbps Throughput Licese supported on KVM

** performance figures assume Intel server-grade processor with 3 GHz