

DefensePro 6
DefensePro 20
DefensePro 60
DefensePro 110/220
DefensePro 200/400
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 6-5 - 5 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 110-40 - 40 Gbps DP model 220-120 - 120 Gbps	DP model 200-80 - 80 Gbps DP model 400-160 - 160 Gbps
Max Mitigation Capacity/Throughput	6 Gbps	20 Gbps	60 Gbps	110 Gbps/220 Gbps	200 Gbps/400 Gbps
Max Attack Concurrent Sessions	Unlimited				
Max DDoS Flood Attack Prevention Rate	5,800,000 pps	25,000,000 pps	25,000,000 pps	50,000,000 pps/146,000,000 pps	330,000,000 pps
SSL/TLS Connections per Second	20KCPS (RSA 2K)	95KCPS (RSA 2K)	95KCPS (RSA 2K)	150KCPS (RSA 2K)	-
Latency	< 60 microseconds				
Real-Time Signatures	Detects attacks and protects in less than 18 seconds				

INSPECTION PORTS

10/100/1000 Copper Ethernet	6	-	-	-	-
1 GE/10 GE	2 (SFP+)	24 (SFP+)	24 (SFP+)	24 (SFP+/SFP28)	20 (SFP+)
25 GE	-	-	-	-	-
40 GE	-	-	-	max. 8/min. 4 (QSFP+)	4 (QSFP+)
100 GE	-	-	-	max. 4/min. 0 (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	Inline; SPAN port monitoring; Copy port monitoring; Out-of-path mitigation (scrubbing center solution)
Tunneling Protocols	VLAN Tagging, L2TP, MPLS, GRE, GTP, IPinIP
IPv6	Yes
Jumbo Frame	- Supported
Block Actions	Drop packet, reset (source, destination, both), suspend (source IP address, source port, destination IP address, destination port or any combination), challenge-response for TCP, HTTP and DNS suspicious traffic

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 (e.g., SFP+)	Internal fail-close for optical transceivers (e.g., SFP+)	Internal fail-close for optical transceivers (e.g., SFP+, SFP28, QSFP+, SFP28)	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 (19 in)	436 x 480 x 88 mm (2U)	436 x 480 x 88 mm (2U)	482 x 550 x 87 mm (2U) EIA Rack or Standalone: 482 mm (19 in)	424 x 600 x 88 mm (2U) EIA Rack or Standalone: 482 mm (19 in)
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)	14.5 kg (31.9 lbs)	18.7 kg (41.2 lbs)
Power Supply (Auto-range)	AC: 100-120V/200-240V, 47-63 Hz; DC: -36 to -72V	AC: 100-120V/200-240V, 47-63 Hz; DC: -36 to -72V	AC: 100-120V/200-240V, 47-63 Hz; DC: -36 to -72V	AC: 100-120V/200-240V, 47-63 Hz; DC: -36 to -72V (80 plus certified)	AC: 100-120V/200-240V, 47-63 Hz; DC: -36 to -72V
Power Consumption	140W	Dual PS: 320W		550W	890W
Heat Dissipation	480 BTU/h	Dual PS: 1,088 BTU/h		1880 BTU/h	2,930 BTU/h
Operating Temperature	0°-40°C (32°-104°F)			5% to 95% (non-condensing)	
Humidity	5% to 95% (not concentrated)			5% to 95% (non-condensing)	
Airflow Direction	Front-to-back	Front-to-back	Front-to-back	Front-to-back	Front-to-back

COMPLIANCE & CERTIFICATIONS

RoHS	Compliant (EU directive 2011/65/EU, 2015/863/EU)					
Safety/EMC/EMI	FCC Part 15, Class A; IC ICES-003; UL 60950-1:2007 R10.14; CAN/CSA-C22.2 No. 60950-1-07+A1:2011; EN 60950-1:2006+A1 1:2009+A1:2010+A1 2:2011+A2:2013; IEC 60950-1:2005 (Second Edition)+Am 1:2009+Am 2:2013; EN 60950-1:2006+A11:2009; AS/NZS 60950.1:2015	FCC Part 15, Class A; IC ICES-003; UL 60950-1:2007 R10.14; CAN/CSA-C22.2 No. 60950-1-07+A1:2011+A2:2014; EN 55022:2010/AC:2011 Class A; EN 61000-3-2:2014; EN 61000-3-3:2013; EN 55024:2010; IEC 61000-4-2:2008; IEC 61000-4-3:2006+A1:2007; IEC 61000-4-4:2012; IEC 61000-4-5:2014; IEC 61000-4-6:2013; IEC 61000-4-8:2009; IEC 61000-4-11:2004; IEC 61000-4-12:2006; IEC 60950-1:2005 (Second Edition)+Am 1:2009+Am 2:2013; EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013; NEBS		FCC Part 15, Subpart B, Class A; IC ICES-003:2016 Issue 6, Class A; ANSI C63.4:2014; UL 60950-1:2007 R10.14; CAN/CSA-C22.2 No. 60950-1-07+A1:2011+A2:2014; UL 62368-1:2007 R10.14; CAN/CSA-C22.2 No. 62368-1-14; EN 55024:2010; EN 55032:2015 +AC:2016 / CISPR 32:2015 +COR1:2016 / AS/NZS CISPR 32:2015, Class A; EN 300 386 V2.1.1 (2016-07); EN 61000-3-2:2014; EN 61000-3-3:2013; EN 61000-4-2:2009; EN 61000-4-3:2006 +A1:2008 +A2:2010; EN 61000-4-4:2012; EN 61000-4-5:2014; EN 61000-4-6:2014; EN 61000-4-8:2010; EN 61000-4-11:2004	FCC Part 15B (Class A); ANSI C63.4:2014; CISPR 32:2012/2015, Class A; AS/NZS CISPR 32:2013/2015, Class A; IEC 60950-1:2005/AMD1:2009; IEC 60950-1:2005/AMD2:2013; IEC 60950-1:2005; EN 60950-1: 2006/A11: 2009/A1:2010/ A12: 2011/A2:2013; AS/NZS 60950.1:2015; IEC 62368-1:2014; EN 62368-1:2014/A11:2017; AS/NZS 62368.1:2018; EN 300 386 V2.1.1 (2016-07), Class A; EN 55032:2015 +AC:2016; EN 61000-3-2:2014, Class A; EN 61000-3-3:2013; EN 61000-4-2:2009, EN 61000-4-3:2006 +A1:2008 +A2:2010; EN 61000-4-4:2012; EN 61000-4-5:2014; EN 61000-4-6:2014	FCC Part 15B (Class A); ANSI C63.4:2014; CISPR 32:2012/2015, Class A; IEC 60950-1:2005/AMD1:2009; IEC 60950-1:2005/AMD2:2013; IEC 60950-1:2005; EN 60950-1: 2006/A11: 2009/A1:2010/ A12: 2011/A2:2013; AS/NZS 60950.1:2015; IEC 62368-1:2014; EN 62368-1:2014/A11:2017; AS/NZS 62368.1:2018; EN 300 386 V2.1.1 (2016-07), Class A; EN 55032:2015 +AC:2016; EN 61000-3-2:2014, Class A; EN 61000-3-3:2013; EN 61000-4-2:2009, EN 61000-4-3:2006 +A1:2008 +A2:2010; EN 61000-4-4:2012; EN 61000-4-5:2014; EN 61000-4-6:2014
Certifications	CCC (China), TUV (U.S., Canada), CE (Europe), FCC (U.S.), KCC (Korea), BSMI (Taiwan), EAC (Russia), VCCI (Japan), Anatel (Brazil), SDPPI (Indonesia)	CCC (China), TUV (U.S., Canada), CE (Europe), FCC (U.S.), KCC (Korea), BSMI (Taiwan), EAC (Russia), VCCI (Japan), Anatel (Brazil), SDPPI (Indonesia)		CCC (China), TUV (US, Canada), CE (Europe), FCC (US), KCC (Korea), BSMI (Taiwan), EAC (Russia), VCCI (Japan), Anatel (Brazil)	CCC (China), UL (U.S., Canada), CE (Europe), FCC (U.S.), KCC (Korea), EAC (Russia), VCCI (Japan), Anatel (Brazil)	
Warranty	1-year hardware and software maintenance					
Support	Certainty Support Program					

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

DefensePro VA for Private Clouds

Hypervisor	KVM kernel 3.19, QEMU 2.0, VMware (ESX server versions: 5.1, 5.5, 6.0)
Minimum VM requirements	2 vCPUs, 13GB RAM, 10GB storage
PERFORMANCE¹	
OnDemand Scalable Throughput Licenses	DefensePro VA 200 Mbps, 500 Mbps, 1 Gbps, 2 Gbps, 5 Gbps, 10 Gbps, 20 Gbps ²
Max Mitigation Capacity/Throughput	40Gbps per DefensePro VA Instance
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
Real-Time Signatures	Detects attacks and protects 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/IP Forwarding
Deployment Modes	Inline
Tunneling Protocols	VLAN Tagging, L2TP, MPLS, GRE, GTP, IPinIP
IPv6	Yes
Jumbo Frame	Up to 2KB
Block Actions	Drop packet, reset (source, destination, both), suspend (source IP address, source port, destination IP address, destination port or any combination), challenge-response for TCP, HTTP and DNS suspicious traffic
SUPPORT	
Support	Certainty Support Program

¹ Performance figures assume Intel server-grade processor with 3 GHz

² 20 Gbps Throughput License supported on KVM

DefensePro VA for Public Clouds

Native Public Cloud support	AWS (AMI image)
Minimum VM requirements	2 vCPU, 16GB RAM, EBS storage
Recommended Instance-Type	AWS: 2 vCPU – r5dn.large; 4 vCPU – r5dn.xlarge; 8 vCPU – r5dn.2xlarge
PERFORMANCE	
Max Mitigation capacity/throughput	25Gbps per DefensePro VA instance
Max Legit Concurrent Sessions	1,000,000 sessions per vCPU
Max Attack Concurrent Sessions	Unlimited
Max DDoS Flood Attack Prevention Rate	Up to 500KPPS per vCPU
PORTS	
Up to 25Gbps per DefensePro VA instance	Up to 16 data ports
Management port	1x ports
OPERATION MODE	
Network Operation	IP Forwarding
Deployment Mode	Inline
Block Actions	Drop packet, reset (source, destination, both), suspend (source IP address, source port, destination IP address, destination port or any combination), challenge-response for TCP, HTTP and DNS suspicious traffic
HIGH AVAILABILITY	
Fail-open/fail-close	With Radware-provided AWS Lambda function
Support	Certainty Support Program

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