

# DefensePro Tech Specs



	DefensePro 6	DefensePro 20	DefensePro 60	DefensePro 110/220	DefensePro 200/400	DefensePro 400/800
<b>PROGRAMMABLE MITIGATION PERFORMANCE</b>						
On-Demand Scalable Clean Throughput Licenses	DefensePro 6-02 - 200 Mbps DefensePro 6-05 - 500 Mbps DefensePro 6-1 - 1 Gbps DefensePro 6-2 - 2 Gbps DefensePro 6-3 - 3 Gbps DefensePro 6-5 - 5 Gbps	DefensePro 20-2 - 2 Gbps DefensePro 20-4 - 4 Gbps DefensePro 20-8 - 8 Gbps DefensePro 20-12 - 12 Gbps	DefensePro 60-10 - 10 Gbps DefensePro 60-20 - 20 Gbps DefensePro 60-40 - 40 Gbps	DefensePro 110-40 - 40 Gbps DefensePro 220-120 - 120 Gbps	DefensePro 200-80 - 80 Gbps DefensePro 400-160 - 160 Gbps	DefensePro 400-200 - 200Gbps DefensePro 800-380 - 380Gbps
Max Programmable Mitigation Throughput	6 Gbps	20 Gbps	60 Gbps	110 Gbps/220 Gbps	200 Gbps/400 Gbps	400 Gbps/800 Gbps
Max Attack Concurrent Sessions	Unlimited					
DDoS Flood Attack Prevention Rate	7,2 Mpps	27,5 Mpps	27,5 Mpps	50 Mpps/142 Mpps	292 Mpps	1,119 Mpps
SSL/TLS Connections per Second	20KCPS (RSA 2K)	95KCPS (RSA 2K)	95KCPS (RSA 2K)	150KCPS (RSA 2K)	-	-
Latency	< 60 microseconds					
Real-Time Signatures	Detect attacks and protect in less than 18 seconds					
<b>BLOCKING PERFORMANCE</b>						
Maximal DDoS Blocking Throughput	-	240 Gbps	240 Gbps	800 Gbps	760 Gbps	3.4 Tbps
Maximal DDoS Blocking (PPS)	-	0.357 Billion	0.357 Billion	1.19 Billion	0.827 Billion	2.7 Billion
<b>INSPECTION PORTS</b>						
10/100/1000 Copper Ethernet	6	-	-	-	-	-
1 GE / 10 GE	2 (SFP+)	24 (SFP+)	24 (SFP+)	-	20 (SFP+)	-
10 GE / 25 GE	-	-	-	24 (SFP+/SFP28)	-	-
40 GE	-	-	-	max. 8/min. 4 (QSFP+)	4 (QSFP+)	-
100 GE	-	-	-	max. 4/min. 0 (QSFP28)	4 (QSFP28)	18 (QSFP28)
400 GE <sup>1</sup>	-	-	-	-	-	4 (QSFP-DD)
<b>MANAGEMENT PORTS</b>						
10/100/1000 Copper Ethernet	2					
Management Console	RJ-45					
<b>OPERATION MODE</b>						
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					

<sup>1</sup> Requires 400G connectivity, available at additional cost.

	DefensePro 6	DefensePro 20	DefensePro 60	DefensePro 110/220	DefensePro 200/400	DefensePro 400/800
<b>HIGH AVAILABILITY</b>						
Fail-open/fail-close <sup>2</sup>	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+, SFP28, QSFP+, SFP28)		Internal fail-close for optical transceivers (e.g. SFP+, SFP28, QSFP+, SFP28)
Dual Power Supply	Yes, hot swappable					
<b>PHYSICAL</b>						
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) EIA rack or standalone: 482 mm (19 in)	436 x 480 x 88 mm (2U) EIA rack or standalone: 482 mm (19 in)	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)	436 x 570x 88 mm (2U) EIA rack or standalone: 482 mm (19 in)
Weight	Single power supply: 6 kg (13.2 lbs) Dual power supply: 6.5 kg (14 lbs)	Dual power supply: 13.2 kg (29 lbs)	Dual power supply: 13.2 kg (29 lbs)	Dual power supply: 14.5 Kg (31.9 lbs)	Dual power supply: 18.7 kg (41.2 lbs)	Dual power supply: 27.5 kg (60.6 lbs)
Power Supply (Auto-range)	80 plus certified 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	80 plus certified 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	80 plus certified AC:100–120V/200–240V, 47–63 Hz DC: -36 to -72V	80 plus certified AC:100–120V/200–240V, 47–63 Hz DC: -41 to -72V
Power Consumption	Single and dual power supply: 140W	Dual power supply: 320W		Dual power supply: 550W	Dual power supply: 890W	Dual power supply: 970W
Heat Dissipation	Single and dual power supply: 480 BTU/h	Dual power supply: 1,088 BTU/h		Dual power supply: 1880 BTU/h	Dual power supply: 2,930 BTU/h	Dual power supply: 3,300 BTU/h
Operating Temperature	0°–40°C (32°–104°F)					
Humidity	5% to 95% non-condensing					
<b>COMPLIANCE &amp; CERTIFICATIONS</b>						
<b>Compliance</b>						
RoHS	Compliant (EU directive 2011/65/EU, 2015/863/EU)					
Safety/EMC/EMI & Certifications	UL/TUV, FCC (USA), IC (Canada), CE (Europe), UKCA (UK), RCM (Australia/ NZ) , VCCI (Japan), KCC (Korea), EAC (Russia), CCC (China), BSMI (Taiwan), Anatel (Brazil), NOM (Mexico) For more information visit: <a href="https://www.radware.com/newsroom/certifications-hardware/">https://www.radware.com/newsroom/certifications-hardware/</a>					
Warranty	1-year hardware and software maintenance					
Support	Certainty Support Program					

<sup>2</sup> 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: 6.0, 6.5, 6.7), OpenStack 16.1
Minimum VM requirements	2 vCPUs, 16GB RAM, 10GB storage
<b>PERFORMANCE<sup>1</sup></b>	
OnDemand Scalable Throughput Licenses	DefensePro VA 200 Mbps, 500 Mbps, 1 Gbps, 2 Gbps, 5 Gbps, 10 Gbps, 20 Gbps <sup>2</sup> , 40 Gbps
Max Mitigation Capacity/Throughput	Up to 50 Gbps 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 950,000 pps per vCPU
Latency	< 60 microseconds
Real-Time Signatures	Detect attacks and protect in less than 18 seconds
<b>INSPECTION PORTS</b>	
10 GE, 25 GE, 40 GE	2 (Intel® Ethernet Server Adapter X520, 10 GE; Intel® Ethernet Controller XL710, 40 GE), PCI Passthrough 4 (Intel® Ethernet Network Adapter XXV710, 10 GE, 25 GE), SRIOV 2 (Intel® Ethernet Network Controller E810 10GE, 25GE, 50GE, 100GE), SRIOV
<b>MANAGEMENT PORTS</b>	
Ethernet	Via virtual interface (virtio)
Management Console	KVM Virsh; VMware Serial Port
<b>OPERATION MODE</b>	
Network Operation	Transparent L2 Forwarding/IP Forwarding
Deployment Modes	In-line
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
<b>SUPPORT</b>	
Support	Certainty Support Program

<sup>1</sup> Performance figures assume Intel® server-grade processor with 3 GHz

<sup>2</sup> 20 Gbps, 40 Gbps Throughput License supported on KVM

### DefensePro VA for Public Clouds

Native Public Cloud support	AWS, Azure
Minimum VM requirements	2 vCPUs, 16GB RAM, 10GB storage
<b>PERFORMANCE</b>	
Max Mitigation Capacity/Throughput	Up to 25 Gbps 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 500,000 pps per vCPU
<b>INSPECTION PORTS</b>	
Ethernet	1 or 2 inspection ports for typical deployments. Additional inspection ports up to a limit supported by the instance type.
<b>MANAGEMENT PORTS</b>	
Ethernet	1 port
<b>OPERATION MODE</b>	
Network Operation	AWS: Symmetric inspection, IP Forwarding Mode Azure: Asymmetric inspection, Destination NAT Forwarding Mode
Deployment Mode	AWS: In-VPC or Security VPC Azure: In-VPC
<b>HIGH AVAILABILITY</b>	
Active:Active	AWS and Azure: integration with AWS Gateway Load Balancer and Azure Load Balancer
Fail-open/fail-close	AWS: with Radware-provided Lambda function
Support	Certainty Support Program

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