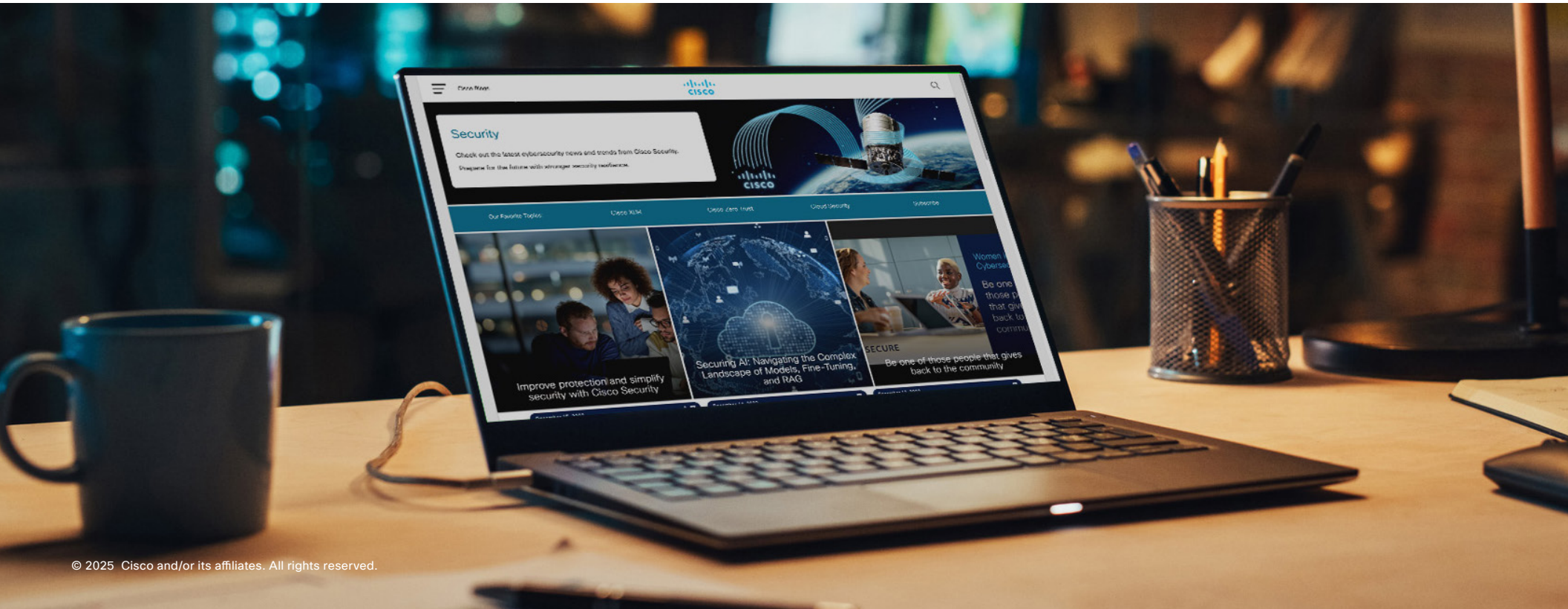
Secure DDoS Protection DefensePro X and DPVA Data Sheet

Customer-facing data sheet for DefensePro X, Cisco's industry-leading DDoS protection solution. This data sheet includes DefensePro Virtual Appliance (DPVA) for public cloud and private cloud deployments. Updated October 2025.



DefensePro® X Data Sheet

	DefensePro X10/X20	DefensePro X40	DefensePro X50/X50HP	DefensePro X80
Programmable Mitigation Performance				
On-Demand Scalable Clean Throughput Licenses	DefensePro X10-05 - 500 Mbps DefensePro X10-1 - 1 Gbps DefensePro X10-2 - 2 Gbps DefensePro X10-5 - 5 Gbps DefensePro X20-5 - 5 Gbps DefensePro X20-10 - 10 Gbps	DefensePro X40-10 - 10 Gbps DefensePro X40-20 - 20 Gbps DefensePro X40-40 - 40 Gbps	DefensePro X50-10 - 10 Gbps DefensePro X50-20 - 20 Gbps DefensePro X50-40 - 40 Gbps DefensePro X50HP-10 - 10 Gbps DefensePro X50HP-20 - 20 Gbps DefensePro X50HP-40 - 40 Gbps	DefensePro X80-10 - 10 Gbps DefensePro X80-20 - 20 Gbps DefensePro X80-40 - 40 Gbps
Max Programmable Mitigation Throughput	10 Gbps/20 Gbps	40 Gbps	50 Gbps	80 Gbps
Max Attack Concurrent Sessions	Unlimited			

	DefensePro X90/X90HP	DefensePro X100/X200	DefensePro X110/X220/X380	DefensePro X400/X800
Programmable Mitigation Performance				
On-Demand Scalable Clean Throughput Licenses	DefensePro X90-10 - 10 Gbps DefensePro X90-20 - 20 Gbps DefensePro X90-40 - 40 Gbps DefensePro X90HP-10 - 10 Gbps DefensePro X90HP-20 - 20 Gbps DefensePro X90HP-40 - 40 Gbps	DefensePro X100-50 - 50 Gbps DefensePro X100-60 - 60 Gbps DefensePro X200-100 - 100 Gbps	DefensePro X110-50 - 50 Gbps DefensePro X220-100 - 100 Gbps DefensePro X380-200 - 200 Gbps	DefensePro X400-200 - 200Gbps DefensePro X800-380 - 380Gbps
Max Programmable Mitigation Throughput	90 Gbps	100 Gbps/200 Gbps	110 Gbps/220 Gbps/380 Gbps	400 Gbps/800 Gbps
Max Attack Concurrent Sessions	Unlimited			

	DefensePro X10/X20	DefensePro X40	DefensePro X50/X50HP	DefensePro X80
Programmable Mitigation Performance				
Distributed Denial of Service (DDoS) Flood Attack Prevention Rate	14 Mpps	35 Mpps	45 Mpps/200 Mpps	35 Mpps
Latency	<60 microseconds			
Real-Time Signatures	Detect attacks and protect in less than 10 seconds			
SSL/TLS Decryption				
SSL/Transport Layer Security (TLS) Connections per Second	43 KCPS (RSA 2K)	95 KCPS (RSA 2K)	100 KCPS (RSA 2K)	95 KCPS (RSA 2K)
TLS 1.3 Perfect Forward Secrecy (PFS) HW Acceleration Support	Yes	Yes	Yes	Yes

	DefensePro X90/X90HP	DefensePro X100/X200	DefensePro X110/X220/X380	DefensePro X400/X800
Programmable Mitigation Performance				
Distributed Denial of Service (DDoS) Flood Attack Prevention Rate	45 Mpps/200 Mpps	142 Mpps	530 Mpps	1,119 Mpps
Latency	<60 microseconds			
Real-Time Signatures	Detect attacks and protect in less than 10 seconds			
SSL/TLS Decryption				
SSL/Transport Layer Security (TLS) Connections per Second	100 KCPS (RSA 2K)	150 KCPS (RSA 2K)	110 KCPS (RSA 2K)	200 KCPS (RSA 2K)
TLS 1.3 Perfect Forward Secrecy (PFS) HW Acceleration Support	Yes	Yes	Yes	Yes

	DefensePro X10/X20	DefensePro X40	DefensePro X50/X50HP	DefensePro X80
Blocking Performance				
Maximal DDoS Blocking Throughput	-	-	-	-
Maximal DDoS Blocking (Packets per Second [PPS])	-	-	-	-
Inspection Ports				
10/100/1000 Copper Ethernet	Up to 16 (2x8) - Modular	-	-	-
1 GE/10 GE	-	12 Small Form-Factor Pluggable Plus (SFP+)	-	12 (SFP+)
10 GE/25 GE	Up to 8 (2x4) (SFP+) - Modular	-	Up to 24 (8x3) (SFP+) - Modular	-
40 GE	-	6 Quad SFP+ (QSFP+)	Up to 6 (2x3) (QSFP+) - Modular	6 (QSFP+)
100 GE	-	-	-	-
400 GE[1]	-	-	-	-

	DefensePro X90/X90HP	DefensePro X100/X200	DefensePro X110/X220/X380	DefensePro X400/X800
Blocking Performance				
Maximal DDoS Blocking Throughput	-	800 Gbps	800 Gbps	3.4 Tbps
Maximal DDoS Blocking (Packets per Second [PPS])	-	1.19 Billion	1.19 Billion	2.7 Billion
Inspection Ports				
10/100/1000 Copper Ethernet	-	-	-	-
1 GE/10 GE	-	-	-	-
10 GE/25 GE	Up to 24 (8x3) (SFP+) - Modular	24 (SFP+/SFP28)	24 (SFP+/SFP28)	-
40 GE	Up to 6 (2x3) (QSFP+) - Modular	8 (QSFP+/QSFP28)	8 (QSFP+/QSFP28)	-
100 GE	-			18 (QSFP28)
400 GE[1]	-	-	-	4 (QSFP-DD)

	DefensePro X10/X20	DefensePro X40	DefensePro X50/X50HP	DefensePro X80
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, Layer 2 Tunneling Protocol (L2TP), Multiprotocol Label Switching (MPLS), Generic Routing Encapsulation (GRE), General Packet Radio Service Tunneling Protocol (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			

	DefensePro X90/X90HP	DefensePro X100/X200	DefensePro X110/X220/X380	DefensePro X400/X800
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, Layer 2 Tunneling Protocol (L2TP), Multiprotocol Label Switching (MPLS), Generic Routing Encapsulation (GRE), General Packet Radio Service Tunneling Protocol (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			

	DefensePro X10/X20	DefensePro X40	DefensePro X50/X50HP	DefensePro X80
High Availability				
Fail-open/ fail-close[2]	Internal fail-open/fail-close for modular copper ports; Internal fail-open/fail-close for fiber ports or optical transceivers (i.e., SFP+)	Internal fail-close for optical transceivers (i.e., SFP+, QSFP+)	Internal fail-open/fail-close for modular copper ports; Internal fail-open/fail-close for fiber ports or optical transceivers (i.e., SFP+)	Internal fail-close for optical transceivers (i.e., SFP+, QSFP+)
Dual Power Supply	Yes, hot swappable			
Physical				
Dimensions (W x D x H) mm	436 x 406 x 44 mm (1U)	438 x 530 x 88 mm (2U) EIA rack or standalone: 530 mm (20.86 in)	490 x 406 x 44 mm (1U)	438 x 530 x 88 mm (2U) EIA rack or standalone: 530 mm (20.86 in)
Weight	Single power supply: 6 kg (13.2 lbs.) Dual power supply: 6.5 kg (14 lbs.)	Single power supply: 11 kg (24.2 lbs.) Dual power supply: 12 kg (26.4 lbs.)	Single power supply: 7 kg (15.4 lbs.) Dual power supply: 7.5 kg (16.5 lbs.)	Single power supply: 11 kg (24.2 lbs.) Dual power supply: 12 kg (26.4 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: -44 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: -44 to -72V
Power Consumption	Single and dual power supply: 140W	Dual power supply: 400W	Single and dual power supply: 350W	Dual power supply: 400W
Heat Dissipation	Single and dual power supply: 480 BTU/h	Dual power supply: 1,364 BTU/h	Single and dual power supply: 640 BTU/h	Dual power supply: 1,364 BTU/h
Operating Temperature	0°–40°C (32°–104°F)			
Humidity	5% to 95% non-condensing			

	DefensePro X90/X90HP	DefensePro X100/X200	DefensePro X110/X220/X380	DefensePro X400/X800
High Availability				
Fail-open/ fail-close[2]	Internal fail-open/fail-close for modular copper ports; Internal fail-open/ fail-close for fiber ports or opticaltransceivers (i.e., SFP+)	Internal fail-close for optical transceivers (e.g., SFP+, SFP28, QSFP+, QSFP28)		Internal fail-close for optical transceivers (e.g., QSFP28, QSFP-DD)
Dual Power Supply	Yes, hot swappable			
Physical				
Dimensions (W x D x H) mm	490 x 406 x 44 mm (1U)	482 x 550 x 87 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)
Weight	Single power supply: 7 kg (15.4 lbs.) Dual power supply: 7.5 kg (16.5 lbs.)	Dual power supply: 14.5 Kg (31.9 lbs)	Dual power supply: 14.5 Kg (31.9 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: -41 to -72V
Power Consumption	Single and dual power supply: 350W	Dual power supply: 550W	Dual power supply: 550W	Dual power supply: 970W
Heat Dissipation	Single and dual power supply: 640 BTU/h	Dual power supply: 1880 BTU/h	Dual power supply: 1880 BTU/h	Dual power supply: 3,300 BTU/h
Operating Temperature	0°–40°C (32°–104°F)			
Humidity	5% to 95% non-condensing			

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

	DefensePro X10/X20	DefensePro X40	DefensePro X50/X50HP	DefensePro X80
Compliance & Certifications				
Restriction of Hazardous Substances (RoHS)	Compliant (EU directive 2011/65/EU, 2015/863/EU)			
Export Control Classification Number (ECCN)	5A002.a.2			
Safety/ Electromagnetic Compatibility (EMC)/EMI & Certifications	UL/TUV, FCC (USA), IC (Canada), CE (Europe), UKCA (UK), RCM (Australia/NZ), VCCI (Japan), KCC (Korea), EAC (Russia), BSMI (Taiwan), Anatel (Brazil), NOM (Mexico). For more information visit: https://www.radware.com/newsroom/certifications-hardware/			
Warranty	1-year hardware and software maintenance			
Support	Certainty Support Program			

	DefensePro X90/X90HP	DefensePro X100/X200	DefensePro X110/X220/X380	DefensePro X400/X800
Compliance & Certifications				
Restriction of Hazardous Substances (RoHS)	Compliant (EU directive 2011/65/EU, 2015/863/EU)			
Export Control Classification Number (ECCN)	5A002.a.2			
Safety/ Electromagnetic Compatibility (EMC)/EMI & Certifications	UL/TUV, FCC (USA), IC (Canada), CE (Europe), UKCA (UK), RCM (Australia/NZ), VCCI (Japan), KCC (Korea), EAC (Russia), BSMI (Taiwan), Anatel (Brazil), NOM (Mexico). For more information visit: https://www.radware.com/newsroom/certifications-hardware/			
Warranty	1-year hardware and software maintenance			
Support	Certainty Support Program			

1 Requires 400G connectivity, available at additional cost.
2 External fiber fail-open switch is available at additional cost.

DefensePro XVA for Private Clouds

Hypervisor	**Kernel Virtual Machine** (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, 21GB RAM, 10GB storage
Performance[1]	
On-Demand Scalable Throughput Licenses	DefensePro VA 200 Mbps, 500 Mbps, 1 Gbps, 2 Gbps, 5 Gbps, 10 Gbps, 20 Gbps[2], 40 Gbps, 100 Gbps
Max Mitigation Capacity/Throughput	Up to 100 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
inspection ports	
10 GE, 25 GE, 40 GE, 100 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), Single Root I/O Virtualization (SRIOV)

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	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
Support	
Support	Certainty Support Program

1 Performance figures assume Intel® server-grade processor with 3 GHz.
2 20 Gbps, 40 Gbps, 100Gbps Throughput License supported on KVM.

DefensePro XVA for Public Clouds

Native Public Cloud support	**Amazon Web Services** (AWS), Azure
Minimum VM requirements	2 vCPUs, 21GB RAM, 10GB storage
Performance	
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
Inspection Ports	
Ethernet	1 or 2 inspection ports for typical deployments. Additional inspection ports up to a limit supported by the instance type.
Management Ports	
Ethernet	2 ports

Operation Mode	
Network Operation	AWS: Symmetric inspection, IP Forwarding Mode Azure: Asymmetric inspection, Destination NAT Forwarding Mode
Deployment Modes	AWS: In-VPC or Security VPC Azure: In-VPC
High Availability	
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