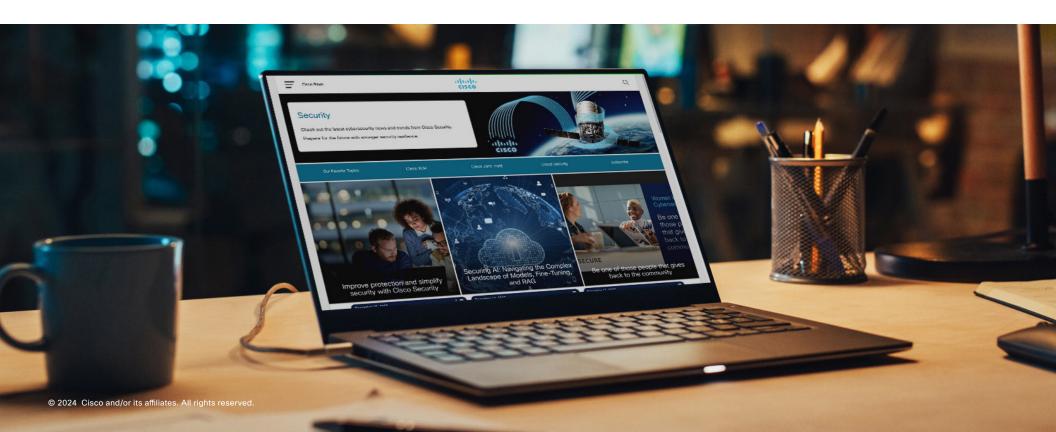ılıılı
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Secure DDoS Protection DefensePro X Data Sheet

Customer-facing product data sheet for DefensePro X, Cisco's industry-leading DDoS protection solution. Updated March 2024.

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DefensePro® X Data Sheet

	DefensePro® X10/X20	DefensePro X40	DefensePro X80	DefensePro X100/X200	DefensePro X400/X800
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 X80-10 – 10 Gbps DefensePro X80-20 – 20 Gbps DefensePro X80-40 – 40 Gbps	DefensePro X100-50 – 50 Gbps DefensePro X200-100 – 100 Gbps	DefensePro X400-200 – 200Gbps DefensePro X800-380 – 380Gbps
Max Programmable Mitigation Throughput	10 Gbps/20 Gbps	40 Gbps	80 Gbps	100 Gbps/200 Gbps	400 Gbps/800 Gbps
Max Attack Concurrent Sessions	Unlimited				

	DefensePro® X10/X20	DefensePro X40	DefensePro X80	DefensePro X100/X200	DefensePro X400/X800
Programmable Mitigation Performance					
DDoS Flood Attack Prevention Rate	14 Mpps	30 Mpps	30 Mpps	142 Mpps	1119 Mpps
Latency	<60 microseconds				
Real-Time Signatures	Detect attacks and protect in less than 18 seconds				
SSL/TLS Decryption					
SSL/TLS Connections per Second	43 KCPS (RSA 2K)	90 KCPS (RSA 2K)	90 KCPS (RSA 2K)	150 KCPS (RSA 2K)	-
TLS 1.3 Perfect Forward Secrecy (PFS) HW Acceleration Support	Yes	Yes	Yes	Yes	-
Blocking Performance					
Maximal DDoS Blocking Throughput	-	-	-	800 Gbps	3.4 Tbps
Maximal DDoS Blocking (PPS)	-	-	-	1.19 Billion	2.7 Billion

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	DefensePro® X10/X20	DefensePro X40	DefensePro X80	DefensePro X100/X200	DefensePro X400/X800
Inspection Ports					
10/100/1000 Copper Ethernet	Up to 16 (2x8) - Modular	-	-	-	-
1 GE/10 GE	-	12 (SFP+)	12 (SFP+)	-	-
10 GE/25 GE	Up to 8 (2x4) (SFP+) - Modular	-	-	24 (SFP+/SFP28)	-
40 GE	-	6 (QSFP+)	6 (QSFP+)	-	-
100 GE	-	-	-	8 (QSFP+/QSFP28)	18 (QSFP28)
400 GE[1]	-	-	-	-	4 (QSFP-DD)
Management Ports					
10/100/1000 Copper Ethernet	2				
Management Console	RJ-45				

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	DefensePro® X10/X20	DefensePro X40	DefensePro X80	DefensePro X100/X200	DefensePro X400/X800
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[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-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				

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

	DefensePro® X10/X20	DefensePro X40	DefensePro X80	DefensePro X100/X200	DefensePro X400/X800
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)	438 x 530 x 88 mm (2U) EIA rack or standalone: 530 mm (20.86 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: 6 kg (13.2 lb) Dual power supply: 6.5 kg (14 lb)	Single power supply: 11 kg (24.2 lb) Dual power supply: 12 kg (26.4 lb)	Single power supply: 11 kg (24.2 lb) Dual power supply: 12 kg (26.4 lb)	Dual power supply: 14.5 kg (31.9 lb)	Dual power supply: 27.5 kg (60.6 lb)
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: -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: –41 to -72V
Power Consumption	Single and dual power supply: 140W	Dual power supply: 400W	Dual power supply: 400W	Dual power supply: 550W	Dual power supply: 970W
Heat Dissipation	Single and dual power supply: 480 BTU/h	Dual power supply: 1364 BTU/h	Dual power supply: 1364 BTU/h	Dual power supply: 1880 BTU/h	Dual power supply: 3300 BTU/h
Operating Temperature	0°–40°C (32°–104°F)				
Humidity	5% to 95% noncondensing				

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	DefensePro® X10/X20	DefensePro X40	DefensePro X80	DefensePro X100/X200	DefensePro X400/X800
Compliance & Certifications					
Compliance					
RoHS	Compliant (EU directive 2011/65/EU, 2015/863/EU)				
ECCN	5A002.a.2				
Safety/ 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/ Note: DefensePro X is sold by Cisco through its global OEM partnership with Radware.				
Warranty	1-year hardware and software maintenance				
Support	Certainty Support Program				

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