

	x06 Series	x016 Series	x412 Series	x420 Series	x4420 Series
Hardware Platform	OnDemand Switch VL S1 (single PS) OnDemand Switch VL S2 (dual PS)	OnDemand Switch 2 S1 (single PS) OnDemand Switch 2 S2 (dual PS)	OnDemand Switch 3 S1 (Behavioral Protection) OnDemand Switch 3 S2 (IPS & Behavioral Protection)	OnDemand Switch HTQ	OnDemand Switch HTQe
<b>Performance</b>					
OnDemand Scalable Throughput Licenses <sup>1</sup>	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 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	DP model 504420 - 50 Gbps DP model 1004420 - 100 Gbps DP model 1604420 - 160 Gbps
Max Mitigation Capacity/Throughput	3Gbps	3Gbps	18Gbps	60Gbps	300Gbps
Max Concurrent Sessions	2,000,000		4,000,000	6,000,000	25,000,000
Max DDoS Flood Attack Prevention Rate	1,000,000 pps	1,000,000 pps	10,000,000 pps	25,000,000 pps	230,000,000 pps
Latency	< 60 micro seconds				
Real-time Signatures	Detect and protect attacks in less than 18 seconds				
<b>Inspection Ports</b>					
10/100/1000 Copper Ethernet	4	12	8	-	-
1 GE	2 (SFP)	4 (SFP)	4 (SFP)	20 (SFP+)	20 (SFP+)
10 GE	-	-	4 (XFP)	-	-
40 GE	-	-	-	4 (QSFP+)	4 (QSFP+)
100 GE	-	-	-	-	4 (QSFP28)
<b>Management Ports</b>					
10/100/1000 Copper Ethernet	2				
Management Console	RJ-45	RS-232			RJ-45
<b>Operation Mode</b>					
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				
<b>High Availability</b>					
Fail-open / fail-close <sup>2</sup>	Internal fail-open/fail-close for copper ports, Internal fail-close for fiber ports				
Dual Power Supply	Optional, hot swappable		Yes, hot swappable		
Advanced internal overload mechanism <sup>3</sup>	Yes				
Active-passive cluster	Yes				
<b>Physical</b>					
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)	424 x 600 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)	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 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	890W
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	2930 BTU/h
Operating Temperature	0-40°C (32-104°F)				
Humidity	5% to 95% (non-condensing)				
Safety	CE LVD( EN 60950-1), CB - IEC 60950-1, CCC, cTUVus, AS/NZS 60950.1				
EMC	CE EMC (EU directive 2004/108/EC), FCC Part 15B Class A, ICES-003, VCCI, C-TICK				
Other Certifications	RoHS Compliant (EU directive 2011/65/EU)				
Warranty	1-year hardware and software maintenance				
Support	Certainty Support Program				

<sup>1</sup> Throughput is measured at the egress of the DP and includes only legitimate traffic (Dropped packets are not calculated in the license).

<sup>2</sup> External fiber fail-open switch with SFP ports is available at additional cost.

<sup>3</sup> Overload mechanism is designed to obtain maximum security coverage under extreme traffic loads.