TippingPoint Threat Protection System

TPS 9200TXE

Technical Specifications

Trend Micro offers these performance numbers as an example of expected performance using recommended settings, in a conservatively configured testing lab environment. Customers are encouraged to complete proof-of-concept testing at their own site to confirm the TippingPoint TPS (Threat Protection System) capabilities meet individual requirements[1].

PERFORMANCE SPECIFICATIONS					
9200TXE	Single Appliance	Two-Unit Stack	Three-Unit Stack	Four-Unit Stack	Five-Unit Stack
Inspection Throughput	100Gbps	200Gbps	295Gbps	390Gbps	485Gbps
New Connections Per Second	1M	2M	3M	4M	5M
Max Concurrent Connections	300M	600M	900M	1,200M	1,500M
Latency[2]	<60 microseconds				
TLS Inspection Throughput[3]	40Gbps	80Gbps	120Gbps	160Gbps	200Gbps
New TLS Connections Per Second	20,000	40,000	60,000	80,000	100,000
Max TLS Concurrent Connections	250,000	500,000	750,000	1,000,000	1,250,000
Max Imported TLS/SSL Certificates	2,500				

PHYSICAL SPECIFICATIONS	
Model	9200TXE
Dimensions	18.54" W x 34.10" D x 1.73" H (1RU)
Weight	42lbs (w/ Blank IOMs)
Voltage	100VAC ~ 240VAC, -40VDC ~ -60VDC
Max Fused Power	1500W @110VAC, 2000W @220VAC
Max Power Consumption	1300W w/ 2x 100GbE IOMs
Power Supplies	2x hot swappable, 1 + 1 redundant 1500W/110VAC, 2000W/220VAC
Fans	7x hot swappable
Mounting	19-inch-wide rack
Operating Temperature	32°F to 104°F (0°C to 40°C)
Operating Relative Humidity	5% to 95% non-condensing
Non-Operating/Storage Temperature	-4°F to 158°F (-20°C to 70°C)
Non-Operating/Storage Humidity	5% to 95% non-condensing
EMC	Class A, FCC, VCCI, CE Marking EN55032:2014/A11:2020, CISPR: 2015; EN55035:2017/A11:2020, CISPR 35: 2015; EN61000-3-2:2014; EN61000-3-3:2013/A1:2019
Safety	IEC 60950-1:2005, AMD1:2009, AMD2:2013; IEC62368-1:2014
Altitude	Up to 6,500 feet above MSL (2000m)
Mean Time Between Failure (MTBF)	64,589 Hours @ 25C

CONNECTIVITY SPECIFICATIONS			
Model	9200TXE		
Network I/O Modules	Up to 2 Modules from list below		
Management I/O Ports	1GbE Copper or SFP28 RJ-45 Serial		
Stacking I/O Ports	Dual QSFP28-DD		
NETWORK I/O MODULES			
Standard	**Ports**	**Port Speed**	**Part Number**
6-Segment 25GbE SFP28	SFP28/SFP+/SFP	25/10/1Gbps	TPNN0370
4-Segment 100GbE QSFP28	QSFP28/QSFP+	100/40Gbps	TPNN0371
Bypass	**Ports**	**Port Speed**	**Part Number**
4-Segment 1GbE Fiber SR	Multi-mode Fiber (LC Type)	1Gbps	TPNN0412
4-Segment 1GbE Fiber LR	Single-mode Fiber (LC Type)	1Gbps	TPNN0413
4-Segment 10GbE Fiber SR	Multi-mode Fiber (LC Type)	10Gbps	TPNN0410
4-Segment 10GbE Fiber LR	Single-mode Fiber (LC Type)	10Gbps	TPNN0411
4-Segment 25GbE Fiber SR	Multi-mode Fiber (LC Type)	25Gbps	TPNN0374
4-Segment 25GbE Fiber LR	Single-mode Fiber (LC Type)	25Gbps	TPNN0375
2-Segment 40GbE Fiber SR4	Multi-mode Fiber (MPO Type)	40Gbps	TPNN0408
2-Segment 40GbE Fiber LR4	Single-mode Fiber (LC Type)	40Gbps	TPNN0409
2-Segment 100GbE Fiber SR4	Multi-mode Fiber (MPO Type)	100Gbps	TPNN0372
2-Segment 100GbE Fiber LR4	Single-mode Fiber (LC Type)	100Gbps	TPNN0373

[1] Performance tests are run in a lab-based environment with DUT configured using recommended settings. Actual performance may differ in a production network.

[2] Average latency for all packet sizes.

[3] Average packet size of 256KB with ECDHE-RSA-AES256-GCM-SHA384 cipher.