Trellix

SPEC SHEET

# Trellix® Intrusion Prevention System

## Physical and virtual appliance specifications

Trellix Intrusion Prevention System (IPS) discovers and blocks sophisticated malware threats across the network.

### Sensor Hardware Model: NS9600

| | 20 Gbps | 40 Gbps | 60 Gbps | 120 Gbps |
|---|---|---|---|---|
| **Performance** | | | | |
| **Aggregate performance** | 20 Gbps | 40 Gbps | 60 Gbps | 120 Gbps |
| **Maximum throughput (UDP 1512-byte packets)** | Up to 80 Gbps | Up to 90 Gbps | Up to 100 Gbps | Up to 200 Gbps |
| **Maximum concurrent connections** | 18,000,000 | 32,000,000 | 36,000,000 | 72,000,000 |
| **Connections per second** | 800,000 | 1,000,000 | 1,200,000 | 2,400,000 |
| **HTTP connections per second (using 1 GET with 5000 HTTP response)** | 400,000 | 700,000 | 800,000 | 1,600,000 |
| **SSL for IPS Hardware Appliances** | | | | |
| **TLS 1.2 Throughput** | 12Gbps | 24Gbps | 35Gbps | 70Gbps |
| **TLS 1.2 Connections per second** | 20,000 | 30,000 | 35,000 | 69,000 |
| **TLS 1.3 Throughput** | 12Gbps | 24Gbps | 35Gbps | 70Gbps |
| **TLS 1.3 Connections per second** | 12,000 | 18,000 | 25,000 | 50,000 |

| Sensor Hardware Model: NS9600 | | | | |
|---|---|---|---|---|
| **TLS Mixed Throughput** | 16Gbps | 32Gbps | 43Gbps | 88Gbps |
| **TLS Concurrent Connections** | 1.6M | 2.7M | 5M | 9.2M |
| **Note:**<br>**TLS1.2 with RSA Cipher and 2K key size**<br>**TLS1.3 with ECDSA cipher and 256 bit key size** | | | | |
| **Number of virtual IPS systems** | 1,000 | 1,000 | 1,000 | 1,000 |
| | **20 Gbps** | **40 Gbps** | **60 Gbps** | **120 Gbps** |
| **Maximum DoS profiles** | 5,000 | 5,000 | 5,000 | 5,000 |
| **ACL rules** | 30,000 | 40,000 | 80,000 | 80,000 |
| **Ports** | | | | |
| **Fixed 100/40 GB Ethernet ports** | 4 (in G0 slot) | 4 (in G0 slot) | 4 (in G0 slot) | 4 (2 each in G0 slot per unit) |
| **Network I/O Slots** | 3 | 3 | 3 | 6 |
| **Network I/O Modules** | ▪ 4-port 100/40 Gigabit SR MTP/MPO *<br>▪ 6-port RJ-45 10/1 Gigabit with internal fail-open<br>▪ 8-port 10/1 Gigabit SM (8.5 micron) with internal fail-open<br>▪ 8-port 10/1 Gigabit MM (50 or 62.5 micron) with internal fail-open | | | |
| **10 Gigabit Ethernet**** | Up to 24 | Up to 24 | Up to 24 | Up to 48 |
| **40 Gigabit Ethernet**** | Up to 12 | Up to 12 | Up to 12 | Up to 20 |
| **100 Gigabit Ethernet**** | Up to 12 | Up to 12 | Up to 12 | Up to 20 |
| **Dedicated Response Ports (RJ45)** | 1 (10G/1G) | 1 (10G/1G) | 1 (10G/1G) | 1 (10G/1G) (per unit) |
| **Dedicated Management Ports (RJ45)** | 1 (10G/1G) | 1 (10G/1G) | 1 (10G/1G) | 1 (10G/1G) (per unit) |
| **Physical** | | | | |
| **Dimensions** | 17.26” (W) x 1.75” (H) x 29.10” (D) | 17.26" (W) x 1.75" (H) x 29.10" (D) | 17.26” (W) x 1.75” (H) x 29.10” (D) | 17.26” (W) x 1.75” (H) x 29.10” (D) (per unit) |
| **Weight** | 34 lbs | 34 lbs | 34 lbs | 34 lbs (per unit) |
| **Storage** | 2x400GB M.2 NVMe | 2x400GB M.2 NVMe | 2x400GB M.2 NVMe | 2x400GB M.2 NVMe (per unit) |
| **Maximum Power Consumption** | 780W | 780W | 780W | 780W (per unit) |


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| Sensor Hardware Model: NS9600 | | | | |
|---|---|---|---|---|
| **Redundant Power Supply** | Yes | Yes | Yes | Yes |
| **Power** | 100 - 240 VAC (50-60Hz) | | | |
| **Temperature** | Operating: 0° to 35° C , Non-operating: - 40° to 70° C | | | |
| **Relative Humidity (non-condensing)** | Operational: 10% to 90%, Non-operational: 5% to 95% | | | |
| **Altitude** | 0 to 10,000 feet | | | |

| Product Regulatory Compliance | |
|---|---|
| **LVD/Safety Certification** | CAN/CSA 22.2 No. 62368<br>UL 62368<br>IEC 62368<br>EN 62368 |


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## Sensor Hardware Model: NS7600

| | 5 Gbps | 10 Gbps | 15 Gbps | 20 Gbps |
|---|---|---|---|---|
| **Performance** | | | | |
| **Aggregate performance** | 5 Gbps | 10 Gbps | 15 Gbps | 20 Gbps |
| **Maximum throughput (UDP 1512-byte packets)** | Up to 18 Gbps | Up to 19 Gbps | Up to 20 Gbps | 25 Gbps |
| **Maximum concurrent connections** | 10,000,000 | 13,000,000 | 15,000,000 | 16,000,000 |
| **Connections per second** | 300,000 | 400,000 | 525,000 | 550,000 |
| **HTTP connections per second** | 140,000 | 250,000 | 300,000 | 350,000 |
| **SSL for IPS Hardware Appliances** | | | | |
| **TLS 1.2 Throughput** | 3 Gpbs | 6 Gpbs | 9 Gpbs | 10 Gbps |
| **TLS 1.2 Connections per second** | 3.500 | 7,000 | 9,000 | 11,000 |
| **TLS 1.3 Throughput** | 3 Gpbs | 6 Gpbs | 9 Gpbs | 9 Gbps |
| **TLS 1.3 Connections per second** | 2,300 | 4,200 | 5,500 | 6,000 |
| **TLS Mixed Throughput** | 4 Gbps | 8 Gbps | 12 Gbps | 16 Gbps |
| **TLS Concurrent Connections** | 340,000 | 680,000 | 900,000 | 1,100,000 |
| **Note:**<br>**TLS1.2 with RSA Cipher and 2K key size**<br>**TLS1.3 with ECDSA cipher and 256 bit key size** | | | | |
| **Number of virtual IPS systems** | 1,000 | 1,000 | 1,000 | 1,000 |
| **Maximum DoS profiles** | 5,000 | 5,000 | 5,000 | 5,000 |
| **ACL rules** | 10,000 | 10,000 | 15,000 | 15,000 |


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## Sensor Hardware Model: NS7600

| | |
|---|---|
| **Ports** | |
| **Fixed GB ethernet—copper ports (internal fail-open)** | — |
| **Fixed 10 GigE/1 GigE (SFP+) ports** | 4 |
| **Fixed 40 GB ethernet** | — |
| **Network I/O slots** | 3 |
| **Network I/O module (three options)** | ▪ 6-Port RJ-45 10/1 Gigabit with internal fail-open<br>▪ 8-Port 10/1 Gigabit SM (8.5 micron) with internal fail-open<br>▪ 8-Port 10/1 Gigabit MM (50 or 62.5) with internal fail-open |
| **10 GB ethernet** | Up to 28 |
| **40 GB ethernet** | — |
| **Dedicated response ports (RJ45)** | 1 (10G/1G) |
| **Dedicated management ports (RJ45)** | 1 (10G/1G) |
| **Physical** | |
| **Dimensions** | 17.26” (W) x 29.10” (D) x 1.75” (H) |
| **Weight** | 32.4 lbs |
| **Storage** | 400 GB M.2 NVMe Drive |
| **Maximum power consumption** | 450W |
| **DC power available** | Not included |
| **Spare power supply** | Included |
| **Power** | 100–240 VAC (50/60Hz) |
| **Temperature** | 0° C to 35° C (operating)<br>-40° C to 70° C (non-operating) |
| **Relative humidity (non-condensing)** | Operational: 10% to 90%<br>Nonoperational: 5% to 95% |
| **Altitude** | 0 to 10,000 feet |


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## Sensor Hardware Model: NS7600

| | |
|---|---|
| **Safety certification** | CAN/CSA 22.2 No. 62368, UL 62368, IEC 62368, EN 62368 |
| **EMI certification** | FCC 47 Part 15, ICES-0003, CISPR 32, VCCI-CISPR32 EN 55032, EN 55035, EN 61000, KS C 9832, KS C 9835 |
| **ROHS compliance** | RoHS<br>REACH |


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## Sensor Hardware Model: NS3600

| | 1 Gbps | 3 Gbps | 5 Gbps |
|---|---|---|---|
| **Performance** | | | |
| **Aggregate performance** | 1 Gbps | 3 Gbps | 5 Gbps |
| **Maximum throughput (UDP 1512-byte packets)** | Up to 8 Gbps | Up to 10 Gbps | Up to 15 Gbps |
| **Maximum concurrent connections** | 2,000,000 | 4,000,000 | 5,000,000 |
| **Connections per second** | 90,000 | 130,000 | 190,000 |
| **HTTP connections per second** | 50,000 | 80,000 | 120,000 |
| **SSL for IPS Hardware Appliances** | | | |
| **TLS 1.2 Throughput** | 0.6 Gbps | 1.42 Gbps | 2.46 Gbps |
| **TLS 1.2 Connections per second** | 1,000 | 1,800 | 3,000 |
| **TLS 1.3 Throughput** | 0.6 Gbps | 1.42 Gbps | 2.46 Gbps |
| **TLS 1.3 Connections per second** | 600 | 1,100 | 18,000 |
| **TLS Mixed Throughput** | 0.8 Gbps | 2.4 Gbps | 4 Gbps |
| **TLS Concurrent Connections** | 110,000 | 300,000 | 500,000 |
| **Note:**<br>**TLS1.2 with RSA Cipher and 2K key size**<br>**TLS1.3 with ECDSA cipher and 256 bit key size** | | | |
| **Number of virtual IPS systems** | 1,000 | 1,000 | 1,000 |
| **Maximum DoS profiles** | 5,000 | 5,000 | 5,000 |
| **ACL rules** | 4,000 | 4,000 | 4,000 |


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## Sensor Hardware Model: NS3600

| | |
|---|---|
| **Ports** | |
| **Fixed Gigabit Ethernet - Copper Ports (internal fail open)** | 8 |
| **Fixed 10 GigE/1 GigE (SFP+) ports** | 2 |
| **Fixed 40 GB ethernet** | — |
| **Network I/O slots** | 1 |
| **Network I/O modules (two options)** | ▪ 4-Port RJ-45 1 Gbps/100 Mbps/10 Mbps<br>▪ 4-Port 10/1 GigE MM 50/62.5 µm |
| **10 GB ethernet** | up to 6 |
| **40 GB ethernet** | — |
| **Dedicated response ports (RJ45)** | 1 (1000/100/10 Mbps) |
| **Dedicated management ports (RJ45)** | 1 (1000/100/10 Mbps) |
| **Physical** | |
| **Dimensions** | 17.16” (W) x 12.3”(D) x 1.75”(H) |
| **Weight** | 12.4 lbs |
| **Storage** | 400GB M.2 NVMe Drive |
| **Maximum power consumption** | 125W |
| **DC power available** | Not included |
| **Spare power supply** | Included (internal) |
| **Power** | 100–240 VAC (50/60Hz) |
| **Temperature** | 0° C to 35° C (operating)<br>-10° C to 70° C (non-operating) |
| **Relative humidity (non-condensing)** | Operational: 10% to 90%<br>Nonoperational: 5% to 95% |
| **Altitude** | 0 to 10,000 feet |


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| Virtual IPS sensor model | VM1000 | | VM5000 | |
|---|---|---|---|---|
| **Platform** | VMware ESXi<br>ESXi 7.0 Update 3 | KVM<br>2.12 | VMware ESXi<br>ESXi 7.0 Update 3 | KVM<br>2.12 |
| **Type of virtual IPS deployment** | Stand-alone | Distributed | Stand-alone | Distributed |
| **Aggregate Performance** | 1 Gbps | 1 Gbps | 5 Gbps | 5 Gbps |
| **Aggregate Performance Layer 7 Enabled** | 1 Gbps | 1 Gbps | 5 Gbps | 5 Gbps |
| **Maximum throughput with test equipment sending UDP packet size of 1518 bytes** | 5 Gbps | 5 Gbps | 9 Gbps | 9 Gbps |
| **Concurrent connections** | 426000 | 426000 | 2500000 | 2500000 |
| **Connections established per second** | 97000 | 80000 | 149000 | 125000 |
| **Latency (Average UDP per packet Latency)** | < 100 us | < 100 us | < 100 us) | < 100 us |
| **Quarantine rules per Sensor - IPv4** | 8000 | 8000 | 8000 | 8000 |
| **Quarantine rules per Sensor - IPv6** | 500 | 500 | 500 | 500 |
| **Quarantine Zones per Sensor** | 50 | 50 | 50 | 50 |
| **Quarantine Zone ACLs per Sensor** | 1,000 | 1,000 | 1,000 | 1,000 |
| **Virtual Interfaces (VIDS) per Sensor** | 100 | 100 | 100 | 100 |
| **VLAN / CIDR Blocks per Sensor** | 300 | 300 | 300 | 300 |
| **VLAN / CIDR Blocks per Interface** | 254 | 254 | 254 | 254 |
| **Customized attacks**<br>**See the note below on how the number of customized attacks is affected** | 100,000 | 100,000 | 100,000 | 100,000 |
| **Ignore rules** | 131072 | 131072 | 131072 | 131072 |
| **Number of attacks with ignore rules** | 100000 | 100000 | 100000 | 100000 |
| **DoS Profiles** | 300 | 300 | 300 | 300 |
| **SYN cookie rate** (64-byte packets per second) | 600,000 | 600,000 | 600,000 | 600,000 |
| **Effective (Firewall) access rules** | 2,000 | 2,000 | 2,000 | 2,000 |
| **Firewall rule objects** | 14,000 | 14,000 | 14,000 | 14,000 |
| **Firewall DNS rule objects** | 750 | 750 | 750 | 750 |


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| Virtual IPS sensor model | VM1000 | | VM5000 | |
|---|---|---|---|---|
| **Firewall rule object groups** | 200 | 200 | 200 | 200 |
| **Application on Custom Port rule objects** | 250 | 250 | 250 | 250 |
| **Firewall user-based rule objects** | 750 | 750 | 750 | 750 |
| **Firewall user groups in access rules** | 2,000 | 2,000 | 2,000 | 2,000 |
| **Number of exclusion list entries permitted for IP Reputation** | 64 | 64 | 128 | 128 |
| **Maximum host entries supported for Connection Limiting policies** | 128,000 | 128,000 | 128,000 | 128,000 |
| **Passive device profile limits** | 15,000 | 15,000 | 15,000 | 15,000 |
| **Advanced Malware - Maximum simultaneous file scan capacity when the file is saved in the Sensor** See the note below for more information. | 32 | 32 | 32 | 32 |
| **Advanced Malware - Maximum simultaneous file scan capacity without saving files in the Sensor** See the note below for more information. | 1,024 | 1,024 | 1,024 | 1,024 |
| **QNew HTTP connections per second** (using 1 GET with 5000 HTTP response) | 59,000 | 47,000 | 78,000 | 83,000 |


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| SSL for Virtual and Cloud IPS sensors | VM1000 | | VM5000 | | | |
|---|---|---|---|---|---|---|
| **Platform** | VMware ESXi | KVM | VMware ESXi | KVM | AWS | Azure |
| **HTTP Throughput** | 1 Gbps | 1 Gbps | 5 Gbps | 5 Gbps | 1 Gbps | 1 Gbps |
| **TLS 1.2 Throughput** | 0.6 Gbps | 0.6 Gbps | 2.6 Gbps | 2.6 Gbps | 0.6 Gbps | 0.6 Gbps |
| **TLS 1.2 Connections per second** | 1,600 | 1,700 | 2,800 | 2,800 | 900 | 900 |
| **TLS 1.3 Throughput** | 0.6 Gbps | 0.6 Gbps | 2.6 Gbps | 2.6 Gbps | 0.6 Gbps | 0.6 Gbps |
| **TLS 1.3 Connections per second** | 1,200 | 1,300 | 2,300 | 2,400 | 900 | 900 |
| **TLS Mixed Throughput** | 0.8 Gbps | 0.8 Gbps | 4 Gbps | 4 Gbps | | |
| **TLS Concurrent Connections** | 230,000 | 230,000 | 460,000 | 460,000 | | |

**Note :**
TLS1.2 with RSA Cipher and 2K key size
TLS1.3 with ECDSA cipher and 256 bit key size

| Cloud Platforms | VM1000 | | VM5000 | |
|---|---|---|---|---|
| **AWS support** | No | Yes | No | Yes |
| **Azure support** | No | Yes | No | Yes |
| **Number of logical CPU cores** | 4 | 4 | 12 | 12 |
| **Memory required** | 8 | 8 | 16 | 16 |
| **Storage** | 8 | 8 | 32 | 32 |
| **Monitoring port** | 6 | 6 | 6 | 6 |
| **Management port** | 1 | 1 | 1 | 1 |
| **Response port** | 1 | 1 | 1 | 1 |
| **Virtual interfaces (VIDS) per sensor** | 100 | 100 | 100 | 100 |
| **Deployment Modes** | Inter-VM inspection, physical-to-VM inspection, physical-to-physical inspection, SPAN/inline port inspection | | | |

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