**TREND** MICRO™

# Trend Micro™ TippingPoint™ TXE Series

**Real-time detection, enforcement, and remediation without compromising security or performance**

Your organization faces increasingly sophisticated cyber threats, including targeted attacks exploiting new and old vulnerabilities. Protecting network assets and data demands detailed visibility across all network layers, up-to-date security intelligence, and a dynamic approach that leverages automation to adapt to new threats and changes.

A multi-layered security strategy is essential. Robust solutions at the network edge and within prevent malicious attacks from reaching critical resources. Comprehensive threat intelligence safeguards your environment against known, unknown, and undisclosed vulnerabilities. With Trend Vision One™ integration, customers can leverage advanced threat detection, centralized visibility, and automated response capabilities to enhance their overall security posture.

## Introducing Trend Micro™ TippingPoint™ Threat Protection System (TPS)
This powerful network cybersecurity sub-module delivers comprehensive threat protection against known and undisclosed vulnerabilities with high accuracy. TippingPoint TPS provides your organization with industry-leading coverage across different threat vectors with extreme flexibility and high performance, keeping you resilient against advanced threats like malware and phishing. The TippingPoint TPS uses a combination of technologies on a flow-by-flow basis. Deep packet inspection, threat reputation, URL reputation, and advanced malware analysis enables you to detect and prevent attacks on your network. Take a proactive approach to security with comprehensive contextual awareness and deeper analysis of network traffic. This complete contextual awareness, combined with the threat intelligence from Trend Micro™ TippingPoint™ Digital Vaccine™ provides the visibility and agility necessary to keep pace with today's dynamic, evolving enterprise and data center networks.

### Key benefits

**Inline NDR with pre-emptive threat prevention**

- Real-time inspection and blocking of all directions of traffic (inbound, outbound, and lateral)

**Threat insight and prioritization**

- Complete visibility across your network

**Real-time enforcement and remediation**

- Continuous, proactive monitoring and automated repair of vulnerable systems
- Operational simplicity Advanced threat detection, centralized visibility, and automated response (With Trend Vision One integration)

## Key features
Inline network detection and response (NDR). As a customer, you can enable Trend Vision One™ NDR visibility along with IPS enforcement capabilities. This TXE sub- module takes a unique approach, isolating and reserving solution resources for NDR visibility without compromising inline reliability.

This enables you to:

- Discover your attack surface. Find unknown assets with your network telemetry and correlate with Azure Active Directory (AD) data, vulnerability scans, and endpoint context

- Identify risky activities. Track suspicious behavior beyond IPS filters. This includes large, unexpected file transfers and suspicious login attempts. Our AI/machine learning (ML)-driven approach allows you to analyze context, from your network to integrations to your endpoints

- Prioritize your riskiest assets. Continuously assessed risk now offers insights into suspicious network behaviors and known threats

- Act with prioritized recommendations. Leverage the power of your inline IPS with Trend Vision One workflows to remediate threats by blocking IPs, FQDNs, and URLs, or by deploying virtual patching recommendations tailored to your environment

- Visualize incidents for faster, comprehensive remediation. Network telemetry is archived and accessible so you can visualize incidents, displaying network-connected resources and communications over time

- Reduce security blind spots. Sophisticated and targeted attacks are increasingly using encryption to evade detection. TippingPoint TPS helps you encrypt traffic with on-box secure sockets layer (SSL) inspection

**Performance scalability.** The increase in data center consolidation and proliferation of cloud environments requires security solutions that can scale as network demands increase. TippingPoint TPS gives you unprecedented security and performance for your high-capacity networks. Including a scalable deployment model, featuring the industry's first 100 Gbps next-generation intrusion prevention system (NGIPS) in a 1U form factor. This gives you the ability to scale up to 0.5 Tbps (500 Gbps) aggregate in a 5U form factor.

**Identify and reduce risks.** Discover unmanaged assets and identify vulnerabilities within your network integration. Identify vulnerabilities by integrating Trend Micro endpoint detecting and response (EDR) or third-party vulnerability assessments with Trend Vision One. Pull in information from various vulnerability management and incident response vendors (Rapid7, Qualys, Tenable) to map Common Vulnerabilities and Exposures (CVE) to Digital Vaccine filters and act accordingly. Utilize Trend Vision One™ – Attack Surface Risk Management (ASRM) to improve your overall security posture by reducing your risk score.

**Advanced threat analysis.** Extend protection against unknown threats by integrating with Trend Vision One cloud sandboxing. TippingPoint TPS pre-filters known threats, forwards potential threats for automated sandbox analysis, and provides real-time remediation upon confirmation of malicious content.

**High availability.** Ideal for inline deployment, TippingPoint TPS provides multiple fault-tolerant features. These include hot-swappable power supplies, watchdog timers for continuous monitoring of security and management engines, built-in inspection bypasses, and zero-power high availability (ZPHA). Additionally, you can provision TippingPoint TPS with redundant links in a transparent active-active or active-passive high availability (HA) mode.

**Asymmetric traffic inspection.** Traffic asymmetry is widespread and pervasive throughout enterprise and data center networks. To fully protect your networks, you must overcome challenges from both flow and routing asymmetry. By default, TippingPoint TPS allows you to inspect all types of traffic, including asymmetric traffic, and allows you to apply security policies to ensure comprehensive protection.

**Best-in-class threat intelligence:** Trend™ Research provides cutting-edge threat analysis and security protections that cover an entire vulnerability lifecycle to help you protect against all potential attack permutations, not just specific exploits. In addition, you have exclusive access to vulnerability information from our Trend Micro™ Zero Day Initiative™ (ZDI), which provides advanced zero-day threat protection. The ZDI is the largest vendor-agnostic bug bounty program. According to Trend experts, with more than 1,913 vulnerabilities published in 2023, TippingPoint customers are protected an average of 96 days before a vulnerability is patched by the affected vendors.

**Support for a broad set of traffic types.** The TippingPoint TPS sub-module supports a wide variety of traffic types and protocols. It provides uncompromising IPv6/v4 simultaneous payload inspection and support for related tunneling variants (4in6, 6in4, and 6in6). It also supports inspection of IPv6/v4 traffic with VLAN and MPLS tags, mobile IPv4 traffic, GRE and GTP (GPRS tunneling), and jumbo frames. This breadth of coverage gives your IT and security administrators the flexibility to deploy protection wherever needed.

> "[Trend Vision One] covers us on all aspects, from endpoint to cloud app security, to perimeter, as well as east-west traffic inside our network. "

**Cody Lee**
Executive Director of Technology, Weatherford ISD
An enterprise-level network serving 8,000 students and 1,200 employees

WEATHERFORD
ISD

OMDIA

Leader in global vulnerability research and discovery since 2007

*Quantifying the Public Vulnerability Market: 2022 Edition, Tanner Johnson, July 2022*

**Proven Leadership**

| Leader FALL 2024 | Best Usability FALL 2024 | Best Relationship FALL 2024 |

Gartner Peer Insights Customers' Choice 2024 — Company Size

**Recognized** in 2024 Voice of the Customer for Network Detection and Response, Midsize Enterprise ($50M - $1B)

FORRESTER WAVE LEADER 2023 — Network Analysis And Visibility

**Named a Leader** in the Forrester Wave™, Network Analysis and Visibility, Q2 2023

## Technical specifications

Trend offers these performance numbers as an example of expected performance using recommended settings, in a testing lab environment. Customers are encouraged to complete proof-of-concept (PoC) testing at their own site to confirm that the TippingPoint TPS capabilities meet individual requirements.[2]



| PERFORMANCE SPECIFICATIONS | 8600TXE | 9200TXE |
|---|---|---|
| Max Inspection Throughput | 40 Gbps | 100 Gbps |
| New Connections Per Second | 1M | |
| Max Concurrent Connections | 300M | |
| Latency3 | <60 usec | |
| TLS Inspection Throughput4 | 25 Gbps | 40 Gbps |
| New TLS Connections Per Second | 20,000 | |
| Max TLS Concurrent Connections | 250,000 | |
| Max Imported TLS/SSL Certificates | 2,500 | |
| Supported Inspection License Capacities | 5, 10, 15, 20, 30, and 40 Gbps | 40, 60, 80, and 100Gbps |

| STACKING PERFORMANCE | 2 UNIT STACK | | 3 UNIT STACK | | 4 UNIT STACK | | 5 UNIT STACK | |
|---|---|---|---|---|---|---|---|---|
| TXE Model | 8600TXE | 9200TXE | 8600TXE | 9200TXE | 8600TXE | 9200TXE | 8600TXE | 9200TXE |
| Max Inspection Throughput | 80 Gbps | 200 Gbps | 120 Gbps | 295 Gbps | 160 Gbps | 390 Gbps | 200 Gbps | 485 Gbps |
| New Connections Per Second | 2M | | 3M | | 4M | | 5M | |
| Latency3 | 600M | | 900M | | 1,200M | | 1,500M | |
| TLS Inspection Throughput4 | <60 usec | | | | | | | |
| New TLS Connections Per Second | 50 Gbps | 80 Gbps | 75 Gbps | 120 Gbps | 100 Gbps | 160 Gbps | 125 Gbps | 200 Gbps |
| Max TLS Concurrent Connections | 40,000 | | 60,000 | | 80,000 | | 100,000 | |
| Max Imported TLS/SSL Certificates | 500,000 | | 750,000 | | 1,000,000 | | 1,250,000 | |

| PHYSICAL SPECIFICATIONS | 8600TXE | 9200TXE |
|---|---|---|
| Max Network IO Modules | 2 (see Network IO Modules table below) ||
| Management Ports | 1 GbE copper or SFP28 ||
| Stacking Interconnect | Dual QSFP28-DD ||
| Dimensions | 18.54" W x 28.90" D x 1.73" H (1RU) | 18.54" W x 34.10" D x 1.73" H (1RU) |
| Weight | 32 lbs (w/ blank IOMs) | 42 lbs (w/ blank IOMs) |
| Voltage | 100 VAC ~ 240 VAC (C16 input connectors) ||
| Max. Fused Power | 1,200W @110 VAC/220 VAC | 1,500W @110 VAC |
| Max. Power Consumption | 1,000W w/ 2x 100 GbE IOMs | 1,300W w/ 2x 100 GbE IOMs |
| Power Supplies | 2x hot swappable, 1+1 redundant ||
| Fans | 7x hot swappable ||
| 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; ||
| Safety | IEC 60950-1:2005, AMD1:2009, AMD2:2013; IEC62368- 1:2014; IEC62368-1: 2018 ||
| Altitude | Up to 6,500 feet above MSL (2000m) ||
| Mean Time Between Failure (MTBF) | 364,594 hours @ 25C | 176,952 hours @ 25C |

| NETWORK IO MODULES ||||
|---|---|---|---|
| **Standard** | **# Ports/Connector Type** | **Port Speed** | **Part Number** |
| 6-segment 25 GbE SFP28 | 12 x SFP28/SFP+/SFP | 1/10/25 Gbps | TPNN0370 |
| 4-segment 100 GbE QSFP28 | 8 x QSFP28/QSFP+ | 40/100 Gbps | TPNN0371 |
| **Standard** | **# Ports/Connector Type** | **Port Speed** | **Part Number** |
| 6-segment Gig-T | 12 x copper RJ45 | 1 Gbps | TPNN0414 |
| 4-segment 1 GbE fiber SR | 8 x multi-mode fiber (LC type) | 1 Gbps | TPNN0412 |
| 4-segment 1 GbE fiber LR | 8 x single-mode fiber (LC type) | 1 Gbps | TPNN0413 |
| 4-segment 10 GbE fiber SR | 8 x multi-mode fiber (LC type) | 1/10 Gbps | TPNN0410 |
| 4-segment 10 GbE fiber LR | 8 x single-mode fiber (LC type) | 1/10 Gbps | TPNN0411 |
| 4-segment 25 GbE fiber SR | 8 x multi-mode fiber (LC type) | 25 Gbps | TPNN0374 |
| 4-segment 25 GbE fiber LR | 8 x single-mode fiber (LC type) | 25 Gbps | TPNN0375 |
| 2-segment 40 GbE fiber SR4 | 4 x multi-mode fiber (MPO type) | 40 Gbps | TPNN0408 |
| 2-segment 40 GbE fiber LR4 | 4 x single-mode fiber (LC type) | 40 Gbps | TPNN0409 |
| 2-segment 100 GbE fiber SR4 | 4 x multi-mode fiber (MPO type) | 100 Gbps | TPNN0372 |
| 2-segment 100 GbE fiber LR4 | 4 x single-mode fiber (LC type) | 100 Gbps | TPNN0373 |