# WedgeSecure Guard – Data Sheet

**January 2026**

## Overview

- High-performance, AI-driven next-generation Intrusion Prevention System (IPS) for high-bandwidth IT and critical infrastructure networks
- Software-defined platform optimized for modern x86 deployments
- Provides deterministic, inline threat prevention using:
  - Deep Content Inspection (DCI)
  - Real-time AI/ML malware prevention for known and unknown threats
- Deployment options:
  - On-premises data centers and enterprise networks
  - Isolated / air-gapped environments
  - Distributed operations requiring local enforcement

## Features and Benefits

- **Inline Next-Generation IPS**
  - Blocks threats before they breach, operating directly in the traffic path
  - Designed for high-throughput environments without relying on cloud connectivity
- **Deep Content Inspection (DCI) for Network Visibility**
  - Application-layer inspection for:
    - Threat detection
    - Anomaly identification
    - Policy enforcement and violation detection
  - Improves detection accuracy across varied network environments
- **High-Performance, Software-Defined Architecture**
  - Massive-threading traffic processing optimized for x86 platforms
  - Scales to high bandwidth and high session volumes
- **Real-Time AI/ML Threat Prevention**
  - Embedded deep-learning engine detects and blocks:
    - Newly emerging threats
    - Previously unseen malware and attack patterns
  - Complements signature and rule-based detection methods
- **Security Orchestration**
  - Orchestrated Threat Management (OTM) prioritizes active threats in real time
  - Helps focus inspection and mitigation on the highest-risk events while maintaining performance
- **Resilience and Operational Continuity**
  - High-availability clustering for failover
  - Traffic load balancing to distribute processing
  - LAN bypass for continuity during maintenance or hardware failure

- Supports environments that require continuous uptime

## Use Cases

- **Critical Infrastructure and Industrial Operators**
  - Energy, utilities, and similar operators requiring:
    - Inline enforcement
    - Local control
    - Support for high security and limited connectivity environments
- **Medium and Large Enterprises**
  - High-throughput IPS and gateway security for complex enterprise networks
  - Protects critical applications, data, and users without reducing network performance
- **Data Centers**
  - Deployed at ingress/egress points or within multi-tier architectures
  - Enables:
    - Inline intrusion prevention
    - Segmentation enforcement
    - Central policy orchestration across mission-critical infrastructure
  - Supports uptime and compliance requirements
- **Government, Military, and Defense Networks**
  - Secure connectivity and threat prevention for:
    - Facilities and command centers
    - Sensitive networks and systems requiring deterministic inline controls

## Technical Specifications

- **Core Functions**
  - Next-generation Intrusion Prevention System (IPS)
  - Deep Content Inspection (DCI) at the application layer
  - AI/ML-based malware detection for known and unknown threats
  - Threat prioritization and orchestration via Orchestrated Threat Management (OTM)
- **Performance and Platform**
  - Software-defined architecture
  - Massive-threading traffic processing
  - Optimized for modern x86-class platforms
- **Availability and Continuity**
  - High-availability clustering
  - Traffic load balancing
  - LAN bypass for fail-open / continuity during maintenance or failures
- **Deployment Models**
  - Inline on-premises deployment
  - Supports air-gapped and isolated networks
  - Suitable for distributed operations requiring local enforcement

## Software Specifications

| Network Traffic Visibility | |
|---|---|
| **Deep Packet Inspection** | |
| **Traffic Classification** | DNS Filtering |
| **DoS and Exploits Prevention** | Snort Syntax with HyperState |
| **Deep Content Inspection** | |
| **MIME Types** | All IANA Registered MIME Types |
| **Unarchiving and Unpacking** | 500+ distinct run-time packers, with more than 3000 versions, including common types such as .zip, .rar; recursive packing, and new types such as google/brotli |
| **Application Protocols** | HTTP(S), FTP, SMP, IMAP, POP3, SOAP, MAPI, XML/HTTP, Webmails (Yahoo, Google, Outlook) |
| **TLS Versions** | v1.1, v1.2, v1.3 |
| **Real-Time Performance** | |
| **Scalability** | Linear Scalability with the number of CPUs |
| **AI/ML for Advanced Persistent Threats (APTs) and Real-Time Prevention** | |
| **Protected Endpoint OSes** | MS Windows, Linux, iOS, Android, MAC OS |
| **AI / ML Algorithms** | CNN, GCNN, FM |
| **Analysis Types** | Real-time Static; Behavior Simulation; In-Situ |
| **Security Functions Orchestration** | |
| **Intrusion** | IDS, IPS |
| **Malware** | Multi-signature Databases; AL/ML; Malware Analyzer |
| **Web-Filtering** | Custom URL Lists, Categorized Web Database, Regional CERT Supplied Database |
| **DLP** | Automation, Regex, Network-Based |
| **MDR / EDR Integration** | Cylance, TriagingX |
| **GRC Compliance** | NIST SP 800-53, NIST SP 800-82, ISO/IEC 27001, CCCS ITSG-33, PCI DSS, ETSI 103 |
| **Application Control** | Web Chat Sessions; VoIP Applications |
| **SIEM** | Export to third-party systems; Import from third-party systems; Multi-node clustering; Scheduled reporting |
| **Deployment Options** | |
| **Network Integration** | L2 Transparent Bridge, Router Mode, Two-legged Router Mode, LACP, RSTP, TAP, Asymmetric Web Filtering, Sandvine Divert |
| **Load Balancing** | LACP-Based Smart Clustering, F5, Brocade, DNS Round Robin, OpenFlow |
| **Form Factors** | Appliances (up to 10 Gbps) |
| **SASE Topology** | Edge Enforced-Cloud Managed; On-Premises |

## Hardware Specifications

| | WSG-1116T | WSG-1120T | WSG-1124T | WSG-2224T |
|---|---|---|---|---|
| **Up to Max Endpoints** | 2,500 | 5,000 | 10,000 | 50,000 |
| **CPU** | Intel® Xeon® D-2876NT, 16-core | Intel® Xeon® D-2896NT, 20-core | Intel® Xeon® Silver 4516Y+, 24-core | 2 x Intel Xeon® Gold 5418Y, 48-core |
| **RAM** | 32GB R-DDR4 3200 | 64GB R-DDR4 3200 | 128GB R-DDR5 5600 | 256GB R-DDR5 5600 |
| **Drive Capacity** | 256GB SATA M.2 SSD, 3D TLC BiCS5 | 512GB SATA M.2 SSD, 3D TLC BiCS5 | 1TB (RAID 1) PCIe/NVMe Gen3 U.2 SSD, 3D TLC BiCS5 | 8TB (RAID 5) PCIe/NVMe Gen3 U.2 SSD, 3D TLC BiCS5 |
| **Network Interfaces** | 8 x 1G RJ45 (2-pair LAN-bypass), 4 x 10G SFP+, 2 x GbE MGMT | 8 x 1G RJ45 (2-pair LAN-bypass), 4 x 10G SFP+, 2 x GbE MGMT | 4 x 1G RJ45 (LAN-bypass), 4 x 1G SX (LAN-bypass), 4 x 10G SFP+ (LAN Bypass) , 2 x GbE MGMT | 16 x 1G RJ45, 2 x 10G SFP+ (LAN-bypass), 2 x GbE MGMT |
| **Management & Console** | 1 x RJ45 Console, 2 x USB3.0, 1 x IPMI GE | 1 x RJ45 Console, 2 x USB3.0, 1 x IPMI GE | 1 x RJ45 Console, 2 x USB3.0, 1 x IPMI GE | 1 x RJ45 Console, 2 x USB3.0, 1 x IPMI GE |
| **Multi-Link Capability** | YES | YES | YES | YES |
| **High Availability** | Configurable | Configurable | Configurable | Configurable |
| **Dimensions (WxDxH)** | 17.2" x 1.7" x 16.5" | 17.2" x 1.7" x 16.5" | 17.2” x 1.7” x 23.6” | 17.2" x 3.4" x 23.6" |
| **Weight** | 18.14 lbs | 18.14 lbs | 24.25 lbs | 51.8 lbs |
| **AC Power Supply** | 300W 1+0 PSU | 300W 1+0 PSU | 550W redundant PSU | 1200W redundant PSU |
| **Form Factor** | 1U Rack Mount | 1U Rack Mount | 1U Rack Mount | 2U Rack Mount |
| **Environment** | T:0°~40°C; H: 10%~95% | T:0°~40°C; H: 10%~95% | T:0°~40°C; H: 10%~95% | T:0°~40°C; H: 10%~95% |
| **Certifications** | CE, FCC, CB, UL, CCC | CE, FCC, CB, UL, CCC | CE, FCC, CB, UL, CCC | CE, FCC, CB, UL, CCC |