

WedgeSecure Guard – Data Sheet

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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; AI/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

	NDP-2222T	NDP-2228T-2.5	NDP-2228T-5	NDP-2428T-10
Up to Max Endpoints	10,000 Endpoints	16,667 Endpoints	27,778 Endpoints	50,000 Endpoints
Scanned Throughput	1 Gbps	2.5 Gbps	5 Gbps	10 Gbps
CPU	2x22 Core Intel Xeon® Gold	2x28 Core Intel Xeon® Gold	2x28 Core Intel Xeon® Gold	4x28 Core Intel Xeon® Gold
RAM	128 GB	128 GB	192 GB	256 GB
Dimensions (WxDxH)	17.54" x 26.75" x 3.44"	17.54" x 26.75" x 3.44"	17.54" x 26.75" x 3.44"	17.54" x 29.71" x 3.44"
Weight	43.00 lbs	43.00 lbs	43.00 lbs	75.23 lbs
High Availability	YES	YES	YES	YES
Network Interfaces	4 x GbE (Mgmt.), 4 x GbE (Bypass), 4 x GbE SFP	4 x GbE (Mgmt.), 4 x 10GbE (Bypass), 4 x 10GbE SFP+	4 x GbE (Mgmt.), 4 x 10GbE (Bypass), 4 x 10GbE SFP+	4 x GbE (Mgmt.), 4 x 10GbE (Bypass), 4 x 10GbE SFP+
Drive Capacity	2 x 2.4 TB SAS	2 x 2.4 TB SAS	3 x 2.4 TB SAS	5 x 2.4 TB SAS
Multi-Link Capability	Up to 24 Ports	Up to 24 Ports	Up to 24 Ports	Up to 32 Ports
AC Power Supply	2 x 800W	2 x 800W	2 x 800W	2 x 1600W
Form Factor	2U Rack Mount	2U Rack Mount	2U Rack Mount	2U Rack Mount
Environment	T:10°~35°C; H: 8%~90%	T:10°~35°C; H: 8%~90%	T:10°~35°C; H: 8%~90%	T:10°~35°C; H: 8%~90%
Certifications	CE Mark, UL, cUL, IEC, EN, KCC, BSMI, CCC, TUV, C-tick, CISPR Class A, RoHS	CE Mark, UL, cUL, IEC, EN, KCC, BSMI, CCC, TUV, C-tick, CISPR Class A, RoHS	CE Mark, UL, cUL, IEC, EN, KCC, BSMI, CCC, TUV, C-tick, CISPR Class A, RoHS	CE Mark, UL, cUL, IEC, EN, KCC, BSMI, CCC, TUV, C-tick, CISPR Class A