

WedgeSecure Edge – Data Sheet

December 2025

Overview

- Cloud-orchestrated network security with:
 - Centralized policy management in the cloud
 - Enforcement at distributed network edges
- Provides consistent, real-time protection across:
 - Corporate offices and branch sites
 - Retail locations
 - Industrial and outdoor environments
- Delivered on a family of hardware platforms combining:
 - Advanced routing and switching
 - Flexible connectivity (multi-WAN, LTE/5G, Wi-Fi)
 - Integrated cybersecurity services

Features and Benefits

- **Edge-to-Cloud Security Architecture**
 - Centralized cloud policy and visibility
 - Local enforcement at each edge device
 - Encrypted tunnels from all edges to the cloud for secure management and telemetry
- **Advanced Security Services**
 - Next-generation firewall with stateful inspection
 - High-performance Intrusion Detection and Prevention System (IDPS)
 - Secure Web Gateway:
 - AI-driven anti-malware for known and unknown threats
 - TLS/HTTPS inspection (where licensed and configured)
 - DNS and web filtering using a categorized global URL database for:
 - Content control
 - Blocking malicious and risky destinations
- **Flexible Hardware Platform Options**
 - Multiple models to match site size and bandwidth:
 - Fanless desktop appliances up to 1 Gbps for small offices
 - 1U rackmount appliances up to 10 Gbps for headquarters and data centers
 - Integrated networking features:
 - PoE+ ports for powering access points and cameras
 - Built-in Wi-Fi 5/6 options on selected models
 - Multi-WAN with LTE/5G support for failover and resilience
- **Ruggedized Industrial and Outdoor Models**
 - Hardware options with:
 - IP40 / IP51 / IP67 environmental ratings

- MIL-STD-810G and IEC 61850-3 certifications
 - Designed for harsh industrial, utility, and outdoor field sites
- **Simplified Deployment and Operations**
 - Zero-touch auto-provisioning for quick rollout at remote gateways
 - Centralized, multi-tenant cloud management for:
 - Configuration and policy control
 - Logging, reporting, and security analytics
 - Supports multiple deployment modes for:
 - New gateway installations
 - Replacing legacy gateways
 - Adding security/monitoring to existing networks

Use Cases

- **SMEs and Multi-Site Organizations**
 - Secure branch connectivity with unified policies across many locations
 - Easy deployment for sites without dedicated IT staff
- **Enterprise Headquarters and Data Centers**
 - High-throughput models for perimeter and core security
 - Centralized control of remote sites from HQ security operations
- **Retail Chains and Remote Offices**
 - Compact appliances with PoE support for APs, cameras, and POS devices
 - Reliable connectivity with multi-WAN and LTE/5G failover
- **Industrial, Utility, and Outdoor Sites**
 - Ruggedized hardware for plants, substations, and field operations
 - Secure connectivity for OT/IoT devices in demanding environments
- **Network Monitoring and Security Overlay**
 - Deployed inline or out-of-path to add:
 - Threat detection and prevention
 - Web/DNS filtering and visibility
 - Suitable for enhancing existing networks without full replacement

Technical Specifications

- **Security Functions**
 - Next-generation firewall
 - Intrusion Detection and Prevention System (IDPS)
 - Secure Web Gateway (SWG) with:
 - AI-driven anti-malware
 - URL filtering and safe browsing controls
 - DNS filtering and URL categorization
 - Optional TLS inspection and deep content analysis (license/config dependent)
- **Hardware Options**
 - Performance tiers:
 - Desktop models up to 1 Gbps
 - Rackmount appliances up to 10 Gbps
 - Interfaces and options (model-dependent):
 - Ethernet ports with PoE+

- Integrated Wi-Fi 5/6
 - Multi-WAN for broadband and LTE/5G links
- Rugged models:
 - Environmental ratings: IP40 / IP51 / IP67
 - Certifications: MIL-STD-810G, IEC 61850-3
- **Deployment & Management**
 - Cloud-based orchestration and policy management
 - Encrypted VPN tunnels for device management and telemetry
 - Zero-touch provisioning for remote sites
 - Multi-tenant support for MSPs and large organizations
 - Multiple deployment modes:
 - Primary network gateway
 - Security enhancement for existing gateways
 - Monitoring / out-of-band visibility
- **Typical Environments**
 - Indoor: offices, branches, retail, data centers
 - Industrial / outdoor: utilities, transport, field and roadside cabinets

Software Specifications

Deployment Modes	
Gateway Mode	Router gateway with access control, bandwidth management and real-time threat prevention
Bridge mode	Transparent L2 bridge with full traffic inspection
TAP mode	Passive monitoring of mirrored traffic for threat detection
Networking	
Firewall	Zones, NAT, port forwarding, and traffic control
Routing	IPv4 and IPv6 routes
DHCP and DNS	DHCP server and DNS forwards
Multi-WAN	Multi-WAN routing with failover and load balancing
VPN	IPsec and OpenVPN
Security	
Malware Protection	Anti-virus
	AI/ML-driven Anti-malware, APT, Zero Day, Ransomware
	Sandbox and Malware Analyzer
IDPS	Integrated IDPS with signature and anomaly detection
Web Filter	Categorized DNS & Web/URL filtering
	DNS blacklist
	Filtering of Malware Sites, Bot Nets, Hacking, Spyware and Adware, Phishing and Other Frauds, SPAM URLs, Confirmed SPAM Sources, Keyloggers and Monitoring, Proxy Avoidance and Anonymizers
URL Filtering	URL detection and blocking with safe search
DLP	Network Data Loss Prevention
TLS/SSL Scan	TLS/SSL inspection for encrypted traffic
Analytics	

Dashboard	Visual security landscape
Investigation	Detailed event data for in-depth threat investigation
SIME Events	Detailed view of all the peripheral events collected from a variety of sources
Event Logs	Raw event data for search, analysis, and forensics
Reports	Customized event reports and scheduled event reports
Management	
Provisioning	Zero-Touch Provisioning
Device Management	Central managed device inventory, status, and events
Security Policy	Cloud-orchestrated central security policy management
Multi-Tenancy	Multi-tenants and multi-zone support

Hardware Specifications – General Purpose Models

	NDP-0104	NDP-1104	NDP-1108s	NDP-1108	NDP-1116
Recommended Users	100	250	500	1000	2500
Concurrent Connections	268,000	1,000,000	2,500,000	4,000,000	10,000,000
Firewall Throughput	1 Gbps	1 Gbps	2.5 Gbps	5 Gbps	10 Gbps
IDPS Throughput	300 Mbps	600 Mbps	1.5 Gbps	3 Gbps	6 Gbps
APT Prevention Latency	50 ms	50 ms	50 ms	50 ms	50 ms
CPU	Intel Atom® C3558, 2.2 GHz, 4 Core	Intel Atom® C3558, 2.2 GHz, 4 Core	Intel Atom® C3758, 2.2 GHz, 8 Core	Intel Atom® P5322, 2.2 GHz, 8 Core	Intel Xeon® D2776NT, 2.1 GHz, 16 Core
Memory	16 GB DDR4	16 GB DDR4	32 GB DDR4	32 GB DDR4	64 GB DDR4
Storage	128 GB SATA-3 SSD	128 GB SATA-3 SSD	256 GB SATA-3 SSD	512 GB SATA SSD	1TB SATA-3 SSD
Network Interface	6 x GbE RJ45 2 x GbE SFP	6 x GbE RJ45	8 x GbE RJ45	8 x GbE RJ45 4 X 10GbE SFP+	10 x GbE RJ45 4 X 10GbE SFP+
I/O Interface	1XRJ45, 2xUSB 2.0	1XRJ45, 2xUSB 2.0	1XRJ45, 2xUSB 2.0	1XRJ-45, 2xUSB 2.0	1XRJ-45, 2xUSB 3.0
Form Factor	Desktop	1 U Rack Mount	1 U Rack Mount	1 U Rack Mount	1 U Rack Mount
Dimensions (W x D x H)	9.09"x7.87"x1.73"	17.24"x12.64"x1.73"	17.24"x12.64"x1.73"	17.24"x16.89"x1.73"	17.24"x12.64"x1.73"
Weight	2.65 lbs	9.7 lbs	9.7 lbs	22.27 lbs	18.96 lbs
Power	100V-240V AC	90V-264V AC 1 x 150W PSU	90V-264V AC 1 x 150W PSU	90V-264V AC 1 x 350W PSU	100V-240V AC

	60W DC Adapter				2 x 300W PSU (1+1)
Environment Conditions	Temperature: 0°C to 40°C Humidity: 5% to 90%	Temperature: 0°C to 40°C Humidity: 5% to 90%	Temperature: 0°C to 40°C Humidity: 5% to 90%	Temperature: 0°C to 40°C Humidity: 5% to 90%	Temperature: 0°C to 40°C Humidity: 5% to 90%
Certifications	RoHS, CE/FCC CLASS B, UL, VCCI, RCM, CCC, PTCRB, ODI, MBTC	RoHS, CB, CE, FCC, UL	RoHS, CB, CE, FCC, UL	RoHS, UL, CE/FCC Class A	RoHS, UL, CE/FCC Class A
HS Codes	8517.62.0090	8517.62.0090	8517.62.0090	8517.62.0090	8517.62.0090

(*Performance measures are based on lab testing configurations. Actual measures may vary in the field.)





Hardware Specifications – Ruggedized Outdoor Models

	NDP-0104R	NDP-0108R
Recommended Users	80	400
Concurrent Connections	214,400	2,000,000
Firewall Throughput	800 Mbps	2 Gbps
IDPS Throughput	240 Mbps	1.2 Gbps
APT Prevention Latency	50 ms	50 ms
CPU	Intel Atom® C3508 @1.6 GHz, 4 Core	Intel Atom® C3708 @1.7 GHz, 8 Core
Memory	16 GB DDR4	32 GB DDR4
Storage	128 GB eMMC	64 GB eMMC
Network Interface	4 x GbE RJ45 (2 Ports with POE+), M12 X-coded 8pin Female connector with isolation 1.5KVDC	6 x GbE RJ45 (2 Ports with POE+), M12 X-coded 8pin Female connector with isolation 1.5KVDC
I/O Interface	1x RS232/422/485 by M12 X-coded 8pin with isolation 1.5KVDC, 1xUSB 2.0 by M12 A-coded 8pin Male connector	1x RS232/422/485 by M12 X-coded 8pin with isolation 1.5KVDC, 1xUSB 2.0 by M12 A-coded 8pin Male connector
Wireless (Optional)	1x M.2 Socket for 5G, 1x M.2 socket for Wi-Fi 6, 1x Mini-SIM	1x M.2 Socket for 5G, 1x M.2 socket for Wi-Fi 6, 1x Mini-SIM
Form Factor	Desktop, Fanless	Desktop, Fanless
Dimensions (W x D x H)	14.57" x 8.27 " x 3.27 "	14.57" x 8.27 " x 3.27 "
Weight	10.14 lbs	10.14 lbs

Power	Rated 24-36Vdc (range 9-50Vdc), supports with reverse protection by M12 K-coded 5pin Male connector with isolation 1.5KVDC, Up to 130W	Rated 24-36Vdc (range 9-50Vdc), supports with reverse protection by M12 K-coded 5pin Male connector with isolation 1.5KVDC, Up to 130W
Environment Conditions	Temperature: -40°C to 70°C Humidity: 5% to 90%	Temperature: -40°C to 70°C Humidity: 5% to 90%
Certifications	CE/FCC class A, UL 62368-1, CB, IP67, MIL-STD-810G	CE/FCC class A, UL 62368-1, CB, IP67, MIL-STD-810G
HS Codes	8517.62.0090	8517.62.0090

(*Performance measures are based on lab testing configurations. Actual measures may vary in the field.)

Hardware Interfaces

Model	Interface
NDP-0104L Primary WAN Port: eth8 Secondary WAN Port: eth7 Router mode: br-lan eth5 - eth6 Bridge mode: Ingress eth3, Egress eth4 TAP interface: eth3	
NDP-1104L/1108s Primary WAN Port: eth0 Secondary WAN Port: eth1 Router mode: br-lan eth2 - eth5 Bridge mode: Ingress eth6, Egress eth7 TAP interface: eth6	
NDP-1108L Primary WAN Port: eth6 Secondary WAN Port: eth5 Router mode: br-lan eth7 - eth10 Bridge mode: Ingress eth11, Egress eth12 TAP interface: eth11	
NDP-0104R/0108R Primary WAN Port: eth1 Secondary WAN Port: eth2 Router mode: br-lan eth5 – eth6 Bridge mode: Ingress eth3, Egress eth4	

(*For the interface information of NDP-1116, please contact Wedge Support at Support@WedgeNetworks.com)

Reference Materials

Title
WedgeSecure Edge Deployment Guide
Zero-Touch Provisioning Demo (video)
Tenant & Device/Site/Zone Management Demo (video)
NGFW Demo #1 – Unified IPv4/IPv6 Management (video)
NGFW Demo #2 – Basic Firewall (video)
NGFW Demo #3 – IDPS (video)
Advanced Security with CloudSafe (video)
Real-time Threat Prevention with AI/ML (video)