EDGE Firewall Series

Three editions. One edge network codebase. All three products run the identical edge network LTS — same CLI, management GUI, configuration syntax, and Ansible / Terraform automation. Configurations are portable across the entire series.

Specification	Enterprise Firewall EDGE-ENT-1U	Data Center Firewall EDGE-DC-2U	Virtual Firewall EDGE-VFW
HARDWARE			
Form Factor	1U 19-inch rack-mount appliance	2U 19-inch rack-mount appliance	Virtual machine image (QCOW2, VMDK, VHDX, OVA, cloud AMI)
Dimensions (W x D x H)	440 x 300 x 44 mm	440 x 450 x 88 mm	N/A (software image)
Weight	7.5 kg	16 kg	N/A
Processor	Intel Core i7-12700E, 12-core, 2.1 GHz, AES-NI	Dual Intel Xeon Silver 4314, 16-core each, 2.4 GHz, AES-NI + Intel QAT	Customer-provided host CPU (any x86_64 with AES-NI)
Memory (default / max)	16 GB DDR4 / 64 GB	64 GB DDR4 ECC / 512 GB (16 DIMM slots)	2 – 32 GB vRAM (recommended)
Storage	2 × 240 GB SATA SSD (RAID 1)	2 × 480 GB NVMe SSD (RAID 1) + optional 2.5” bay	Customer-allocated virtual disk (10 GB min)
Cooling	2 × 40 mm rear exhaust fans, hot swap	4 × 80 mm hot-swap fans, dual ball-bearing	Host-dependent
Power Supply	1 × 120W internal AC (optional 1+1 redundant)	2 × 500W 1+1 redundant, hot swap	Draws from host
Power Consumption (typical)	65 W	280 W	Host-dependent
Hardware Acceleration	AES-NI native	AES-NI + Intel QAT (QuickAssist)	AES-NI via CPU passthrough (QAT via PCIe passthrough only)
NETWORK INTERFACES			
Fixed Copper Ports (1GbE RJ45)	8 × 1GbE RJ45 (Intel i350)	8 × 1GbE RJ45 (Intel i350)	Up to 10+ vNICs (virtio-net or SR-IOV)
Fixed Fiber Ports (1GbE SFP)	4 × 1GbE SFP (configurable combo — alternative to 2×10G)	Via swappable NIC modules (see below)	N/A (virtual NICs only)
Fixed Fiber Ports (10GbE SFP+)	2 × 10GbE SFP+ (alternative to 4×1G)	Via swappable NIC modules (see below)	N/A
Fixed Fiber Ports (40GbE QSFP+)	Not supported	Via swappable NIC modules (see below)	N/A
Expansion NIC Modules	2 swappable NIC modules. Per-slot options: 4× 1GbE SFP 2× 10GbE SFP+	4 swappable NIC modules. Per-slot options: 8× 1GbE SFP 4× 10GbE SFP+ 2× 40GbE QSFP+ 2× 100GbE QSFP+ Total flexible capacity: up to 8×1GbE fiber + 8×1GbE copper + 4×10GbE OR 2×40GbE	N/A (host NICs)
Console Port	1× RJ45 RS-232 (115,200 bps)	1× RJ45 RS-232 (115,200 bps)	Hypervisor console / SSH / cloud serial
USB	2 × USB 3.0	4 × USB 3.0 + 1 internal	Host-dependent
IPMI / OOB Management	1 × RJ45 IPMI 2.0 with KVM-over-IP	1 × RJ45 IPMI 2.0 + 1 × dedicated BMC port	Hypervisor / cloud-provider OOB

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Specification	Enterprise Firewall EDGE-ENT-1U	Data Center Firewall EDGE-DC-2U	Virtual Firewall EDGE-VFW
PERFORMANCE — THROUGHPUT			
L2/L3 Forwarding (64B packets)	3.5 Mpps	14.8 Mpps	8.4 Mpps (virtio) / 14.2 Mpps (SR-IOV)
L2/L3 Throughput (1518B)	12 Gbps (full-duplex, 2×10G)	40 Gbps (with 4×10G module loadout)	9.0 Gbps (virtio) / 9.6 Gbps (SR-IOV)
Stateful FW Throughput	10 Gbps	36 Gbps	8.0 Gbps
NAT Throughput (SNAT)	8.6 Gbps	32 Gbps	7.4 Gbps
IPsec AES-256-GCM Throughput	6.5 Gbps	28 Gbps	9.1 Gbps (SR-IOV + AES-NI passthrough)
WireGuard Throughput	5.8 Gbps	24 Gbps	7.5 Gbps
OpenVPN AES-256-GCM Throughput	1.0 Gbps	3.8 Gbps	1.2 Gbps
PERFORMANCE — SCALE			
Concurrent Firewall Sessions	4,000,000	20,000,000	4,000,000
New Sessions / second	120,000	650,000	180,000
IPsec VPN Tunnels	2,000	10,000	3,000
OpenVPN Concurrent Clients	800	5,000	1,500
WireGuard Peers	4,000	16,000	8,000
BGP Routes (RIB)	1,000,000	4,000,000 (full table, multi-peer)	1,500,000
MAC Address Table	32,768 entries	65,536 entries	65,536 entries
Active NAT Translations	30,000	200,000	40,000
ROUTING AND TUNNELING			
Unicast Routing	BGP, OSPFv2/v3, IS-IS, RIP, RIPng, static, PBR		
MPLS and Segment Routing	MPLS, SR-MPLS, SRv6, LDP, RSVP-TE, L3VPN, VPLS, VPWS		
Multicast	IGMPv2/v3, PIM-SM, PIM-SSM, MSDP		
VRF Instances	Up to 1,024	Up to 4,096	Up to 1,024
VPN Protocols	IPsec/IKEv2, WireGuard, OpenVPN, L2TP, GRE, IPIP, VTI, DMVPN		
Tunneling and Overlay	VXLAN, GENEVE, EVPN, GRETAP, 6in4		
SECURITY FEATURES			
Stateful Firewall	nftables, conntrack, zone-based, IPv4 / IPv6		
NAT	SNAT, DNAT, 1:1, port-forward, NPTv6, NAT64, hairpin		
QoS and Traffic Shaping	HTB, FQ-CoDel, SFQ, TBF, DSCP marking / remarking		
Layer 2	802.1Q VLAN, 802.1ad QinQ, STP / RSTP / MSTP, bonding (LACP), MC-LAG		
High Availability	VRRP/VRRPe, conntrack sync, MC-LAG, config sync		
Security Hardening	RBAC, SSH key-only, CoPP, RPKI for BGP		
MANAGEMENT AND AUTOMATION			
Management Interfaces	CLI, REST API (HTTPS/JSON), NETCONF (YANG), SNMP v2c/v3, SSH		
Automation	Ansible collection, Terraform provider, Cloud-init, Python hooks		
Monitoring and Telemetry	sFlow, NetFlow v9, IPFIX, syslog (RFC 3164 / 5424), Prometheus exporter		
Network Services	DHCP / DHCPv6 server + relay, DNS forwarding, NTP, RADIUS client, TACACS+		
Configuration Management	Easy-to-use management GUI, cisco-like CLI		

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Specification	Enterprise Firewall EDGE-ENT-1U	Data Center Firewall EDGE-DC-2U	Virtual Firewall EDGE-VFW
HYPERVISOR AND CLOUD SUPPORT			
Bare Metal	Yes (runs Edge Network directly)	Yes (runs Edge Network directly)	No (requires hypervisor)
Hypervisors	N/A	N/A	KVM / QEMU, VMware ESXi, Microsoft Hyper-V, Proxmox VE, Nutanix AHV, Oracle OLVM, XCP-ng, Red Hat OpenShift Virtualization
Public Cloud	N/A	N/A	AWS Marketplace, Azure Marketplace, GCP Cloud Marketplace, Oracle Cloud OCI, IBM Cloud, Alibaba Cloud
Edge / NFV	N/A	N/A	Dell NativeEdge, ZEDEDA, Equinix Network Edge, Kubernetes via KubeVirt, ETSI NFV MANO compatible
Recommended VM Profile	N/A	N/A	Lite (2vCPU/2GB) — Cloud Burst (32vCPU/32GB); Enterprise (8vCPU/8GB) recommended for DC edge
ENVIRONMENTAL AND CERTIFICATIONS			
Operating Temperature	0 to 40 °C (32 to 104 °F)	0 to 40 °C (32 to 104 °F)	Host-dependent (typically datacenter 10 – 35 °C)
Storage Temperature	-40 to 70 °C	-40 to 70 °C	Host-dependent
Operating Humidity	10% to 90% non-condensing	10% to 90% non-condensing	Host-dependent
Acoustic Noise (typical)	38 dBA at 25 °C ambient	52 dBA at 25 °C ambient	Host-dependent
Safety	CE, UL / cUL 60950-1, EN 60950-1, CB Scheme	CE, UL / cUL 60950-1, EN 60950-1, CB Scheme	N/A (software)
EMC	FCC Part 15 Class A, CE EMC, EN 55032 Class A, EN 55024	FCC Part 15 Class A, CE EMC, EN 55032 Class A, EN 55024	N/A (software)
RoHS / REACH	RoHS 2 compliant, REACH compliant	RoHS 2 compliant, REACH compliant	N/A (software)
LICENSING AND SUPPORT			
Support	LTS (subscription)		
Hardware Warranty	3 years return-to-base (optional on-site NBD)	3 years return-to-base (on-site NBD standard)	N/A (use host / cloud vendor warranty)
Support 24x7 TAC	Optional subscription, per appliance	Optional subscription (included in DC support bundle)	Optional subscription, per instance or per vendor
LTS Branch Support	3 years from GA, security advisories for full term		
Hardware Refresh Cycle	3 – 5 years	3 – 5 years	Software-only upgrades; follows host refresh
Professional Services	Architecture review, migration, automation, training	Same + DC fabric design, BGP tuning, NFV onboarding	Same + cloud migration, multi-cloud automation

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EDGE Firewall Series | Product Matrix

Specification	Enterprise Firewall EDGE-ENT-1U	Data Center Firewall EDGE-DC-2U	Virtual Firewall EDGE-VFW
ORDERING			
Base SKU	EDGE-ENT-1U (base appliance)	EDGE-DC-2U (base 2U, 8×1G copper, 64 GB RAM)	EDGE-VFW-LIC
Optional Accessories	EDGE-ENT-PSU-RD (1+1 PSU kit) EDGE -ENT-SFP-1G (4x 1G SFP+) EDGE -ENT-SFP-10G (2x 10G SFP+)	EDGE-DC-NIC- 8x1G-RJ45 EDGE -DC-NIC- 8x1G-SFP EDGE -DC-NIC- 4x10G EDGE-DC-NIC- 2x40G EDGE-DC-NIC- 2x100G EDGE-DC-PSU-500W (spare PSU)	EDGE-VFW-SUP-1Y (1-year support, per instance) EDGE-VFW-SUP-VND (per-vendor, unlimited instances)

Notes: All three products run the identical edge network LTS codebase. Appliance figures measured per RFC 2544 in edge network lab on production hardware with AES-NI enabled; Virtual figures measured on Intel Xeon Gold 6338 host (32-core, 2.0 GHz), KVM 6.x, virtio-net multiqueue (4 queues). Production results may vary based on configuration, hypervisor, host CPU, and traffic mix. Data Center IPEDGE throughput depends on installed NIC module combination.

Virtual Machine Profiles

IPEDGE Virtual Firewall ships as a single image; resource allocation is determined at deployment time. Edge Network recommends five standard profiles based on expected throughput, feature load, and target platform.

Profile	vCPU	vRAM	Recommended Use Case
Lite	**3 vCPU**	**3 GB**	**Lab / dev, branch vCPE under 1 Gbps**
Business	**4 vCPU**	**4 GB**	**SMB edge, cloud VPN gateway up to 4 Gbps**
Enterprise	**8 vCPU**	**8 GB**	**DC edge, multi-tunnel concentrator up to 10 Gbps**
High-Performance	**16 vCPU**	**16 GB**	**Carrier-grade NFV, full BGP table, multi-tenant VRF**
Cloud Burst	**32 vCPU**	**32 GB**	**Hyperscale cloud edge, AWS / Azure 10G+ instances**

Above figures assume SR-IOV or virtio-net with multiqueue and vhost-net enabled. Actual throughput depends on hypervisor overhead, host CPU, and network I/O configuration.

List of other popular Products

- IPEDGE SIEM
- IPEDGE – Smart Call Manager
- IPEDGE – Core Switch
- On-premise Cloud Computing
- IPEDGE – PoE Switch

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