LANEX

Product Matrix

EDGE Products | Datasheet



EDGE Product Matrix | Datasheet

Innovative Technology for Your Business Growth

EDGE is a leading vendor in the productive deployment of solutions based on technologies and open code

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What do we do? Explore our solutions in different fields and realize the full potential of digital

Choose integrated solutions for your business activities.

Data Centers

allows the operator to have an on-premises private cloud with total control of the infrastructure, from the physical components to the orchestration of network functions.

Edge Networks

Open specifications that allow the best hardware and software using innovative open technologies that interoperate with each other.

Automation

Online Condition Monitoring systems track relevant machine condition parameters for analyzing Prevent unexpected downtime data.

Thermo-Cooler

protects electronic components in the most rugged environments with innovative and dependable thermoelectric cooling and temperature-controlled enclosures.

Edge Cloud — Allow the operator to have an on-premises private cloud with total control of the infrastructure, from the physical components to the orchestration of network functions.

Edge Network — Deploys (Core, Aggregation and Access), using disaggregated hardware and software models, allowing an independent evolution of capacity and functionality, maintaining cost efficiency.

Sensor Cloud — Helps to extend asset lifecycle. Utilize IoT in manufacturing processes to enable real-time decision-making & improved levels of quality and efficiency in production processes.

Thermo-Cooler — Rugged air conditions for electronic cabinets to maximize the life of your equipment. Maintain optimal temperature and regulate humidity for your critical electronic equipment.

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EDGE-CLOUD Infrastructure (ECI)

modular architecture lets you easily snap together or upgrade individual computing nodes (servers) to scale up your processing power whenever your needs grow.

EDGE-Cloud Infrastructure (ECI) is a turnkey, converged rack-scale platform that brings public cloud agility and speed directly inside your corporate data center behind your firewall. Designed for high-demand enterprise workloads such as AI, HPC, VDI, and real-time processing.

Freedom of Choice: Turnkey Appliances or Bring Your Own Hardware (BYOH), EDGE-Cloud Infrastructure are available as pre-configured rack appliances or deployable on existing x86 hardware. Clients can either buy plug-and-play ECI Compute nodes that work right away or install the software on enterprise's own servers.

ECI Compute Server

runs actual workloads, including virtual machines (VMs) and containers.

Key Specs

- *CPU: Dual-socket server processors with (32 to 128+ cores total, AMD EPYC or Intel Xeon Scalable.*
- *Memory (RAM): ECC DDR4/DDR5 RAM 256 GB.*
- *Minimal local storage: (NVMe or SSD drives around 240 GB to 480 GB in RAID1) for booting the hypervisor OS.*
- *Networking: Redundant high-speed network interface cards (dual-port 10 GbE, 40GbE or 100 GbE).*

ECI Management Server

hosts the web dashboard, databases, APIs, authentication services, and orchestration software.

Key Specs

- *CPU: Dual-socket server processors with (16 to 32 cores total, Intel Xeon).*
- *Memory (RAM): ECC DDR4/DDR5 RAM 64-128 GB.*
- *Minimal local storage: SSDs or NVMe drives (1 TB to 2 TB in RAID1) for internal databases and system logs.*
- *Networking: Redundant network interface cards (dual-port 10 GbE or 40GbE).*

ECI Storage Server

centralized, shared disk capacity across the entire cloud. VMs can move seamlessly between computing nodes without downtime.

Key Specs

- *CPU: Single Socket server processors with 16-24 core Intel Xeon.*
- *Memory (RAM): ECC DDR4/DDR5 RAM 64-128 GB.*

Storage Drives. High-density drive bays (12 to 24+ bays)

- *Networking: Redundant network interface cards (dual-port 10 GbE or 40GbE).*

EDGE Cloud Compute Node enterprise (1U/2U/3U) and industrial 4U

Enterprise 1U	Enterprise 2U	Enterprise 3U	Industrial 4U





EDGE Firewall Series

provides end-to-end threat prevention and intelligent network monitoring to neutralize advanced cyber risks before disruption. With highly adaptable policy management and dynamic traffic control, they ensure maximum security coverage without compromising performance.

EDGE Firewall Series— Three Editions, One Codebase. All models are based on EDGE-Network LTS codebase.

The EDGE Firewall series ships in three editions — Enterprise (EDGE-ENT-1U), Data Center (EDGE-DC-2U), and Virtual (EDGE-VFW) — all running the identical EDGE-Network LTS codebase with the same CLI, management GUI, and Ansible, Terraform automation. Configurations are portable across the entire series, so a policy written for a 1U branch appliance lifts unchanged onto a 2U data center firewall or a virtual cloud instance.

All three editions share the same DPI engine, advanced IPS, WireGuard, IPsec, OpenVPN, DMVPN, BGP, OSPF, IS-IS, MPLS, SRv6 routing, and VRRP/MC-LAG high availability.

Virtual Firewall
SKU: IPEDGE-VFW

Single software image for VMware, KVM, Hyper-V, Proxmox, and all major public clouds.

Key Specs
- *Image: QCOW2, VMDK, VHDX, OVA, AMI*
- *Stateful FW: 8 Gbps (SR-IOV)*
- *IPsec AES-256: 9.1 Gbps*
- *Profiles: Lite to Cloud Burst (2-32 vCPU)*
- *Cloud: AWS, Azure, GCP, OCI, IBM, Alibaba*

Enterprise Firewall
SKU: IPEDGE-ENT-1U

1U appliance for branch offices and mid-size enterprises. AES-NI native acceleration.

Key Specs
- *CPU: Intel Core i7-12700E, 12-core*
- *Stateful FW: 10 Gbps*
- *IPsec AES-256: 6.5 Gbps*
- *Sessions: 4 M concurrent*
- *Ports: 8×1G, 4×1G SFP,4×10G SFP*

Data Center Firewall
SKU: IPEDGE-DC-2U

2U high-throughput appliance with Intel QAT for carrier and DC edge. 4 swappable NIC module slots.

Key Specs
- *CPU: 2× Xeon Silver 4314, 16-core each*
- *Stateful FW: 36 Gbps*
- *IPsec AES-256: 28 Gbps (QAT)*
- *Sessions: 20 M concurrent*
- *Ports: 8×1G + 4 swappable NIC modules*

Virtual Machine Firewall - EDGE-DC-VFW

EDGE 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 co**nfiguration** (Virtual machine image (QCOW2, VMDK, VHDX, OVA, cloud AMI)*



EDGE Firewall Series

Deep packet inspection (DPI), Intrusion Prevention Systems (IPS), Zone-based firewall, Stateful firewall, Advanced Network Services and Next-Generation Firewall (NGFW) capabilities.

Enterprise EDGE Firewall – EDGE-ENT-1U

EDGE-ENT-1U Guards the boundary between an organization's trusted internal network (HQ, branch offices, remote workers) and untrusted external networks like the public.

Hardware Specification			
From Factory	*1U 19-inch rack-mount appliance*	***Processor***	*Intel Core i7-12700E, 12-core, 2.1 GHz, AES-NI*
Memory default / max	*16 GB DDR4 / 64 GB*	***Storage***	*2× 240 GB SATA SSD (RAID1)*
Fixed Ports (1GbE RJ45)	*8 × 1GbE RJ45 (Intel i350)*	***Expansion NIC Modules***	*2 swappable NIC modules. 8× 1GbE SFP 4× 10GbE SFP+*
Concurrent Sessions	*4,000,000*	***New Sessions per second***	*120,000*



Data Center EDGE Firewall – EDGE-DC-2U

Ultra-high throughput, massive concurrent session capacity, and ultra-low latency to handle high-speed internal switching (often terabit speeds).

Hardware Specification			
From Factory	*2U 19-inch rack-mount appliance*	***Processor***	*Dual Intel Xeon Silver 4314, 16-core, 2.4GHz, AES-NI*
Memory default / max	*64 GB DDR4 ECC / 512 GB (16 DIMM slots)*	***Storage***	*2 × 480 GB NVMe SSD (RAID1)*
Fixed Ports	*2x 1GbE copper (management)*	***Expansion NIC Modules***	*4 swappable NIC modules. 8×1GbE copper 8× 1GbE SFP 4× 10GbE SFP+ 2× 40GbE QSFP+ 2× 100GbE QSFP+*
Concurrent Sessions	*20,000,000*	***New Sessions per second***	*650,000*



FIREWALL FLEXIBILTY

Virtual Firewall Deployment

Advanced Hardware Appliance

1U/2U flexible rackmount

Scalable Modular Design



EDGE PoE Access Switches Series

provides end-to-end threat prevention and intelligent network monitoring to neutralize advanced cyber risks before disruption. With highly adaptable policy management and dynamic traffic control, they ensure maximum security coverage without compromising performance.

1U PoE+ access switches powered by Realtek / Intel / Marvell / Broadcom switch silicon. All copper ports support IEEE 802.3af (PoE) and 802.3at (PoE+) with autodetection, per-port power monitoring, time-based scheduling, and PoE watchdog for frozen PDs, uplink ports 2x 1 GbE SFP, 2x 10 GbE SFP or 4x 10 GbE SFP.

PoE Access Switch 8 PoE Port
SKU: EDGE-PoE-8 switch

8-port GbE PoE+ switch with 2 SFP uplinks

Switching Capacity: 24 Gbps (non-blocking)
Forwarding Rate (64B packets): 18.6 Mpps
Packet Buffer: 256 KB
MAC Address Table: 6,000 entries
Jumbo Frame Size: 10KB
VLAN Support: Up to 4,094 (802.1Q)
Forwarding Mode: Store-and-forward

PoE Access Switch 16 PoE Port
SKU: EDGE-PoE-16 switch

16-port GbE PoE+ switch with 2 SFP uplinks

Switching Capacity: 36 Gbps (non-blocking)
Forwarding Rate (64B packets): 26.8 Mpps
Packet Buffer: 512 KB
MAC Address Table: 8,000 entries
Jumbo Frame Size: 10KB
VLAN Support: Up to 4,094 (802.1Q)
Forwarding Mode: Store-and-forward

PoE Access Switch 24 PoE Port
SKU: EDGE-PoE-24 switch

24-port GbE PoE+ switch with 2 SFP uplinks

Switching Capacity: 52 Gbps (non-blocking)
Forwarding Rate (64B packets): 38.7 Mpps
Packet Buffer: 512 KB
MAC Address Table: 8,000 entries
Jumbo Frame Size: 10KB
VLAN Support: Up to 4,094 (802.1Q)
Forwarding Mode: Store-and-forward

PoE Access Switch 48 PoE Port
SKU: EDGE-PoE-48 switch

48-port GbE PoE+ switch with 4 SFP uplinks

Switching Capacity: 104 Gbps (non-blocking)
Forwarding Rate (64B packets): 77.4 Mpps
Packet Buffer: 1 MB
MAC Address Table: 16,000 entries
Jumbo Frame Size: 10KB
VLAN Support: Up to 4,094 (802.1Q)
Forwarding Mode: Store-and-forward

Common Features

- *Layer 2 — 802.1Q/QinQ VLAN, STP/RSTP/MSTP, LACP, IGMP/MLD snooping, ERPS ring (G.8032).*
- *QoS — 4–8 priority queues, SPQ/WRR/hybrid, per-port rate limiting (64 Kbps granularity).*
- *Security — 802.1X, RADIUS, TACACS+, L2/L3/L4 ACLs, DHCP snooping, DAI, IP source guard.*
- *Management — web GUI, cisco-like CLI, SNMP v1/v2c/v3, dual-image firmware with rollback.*



Flexible High-Speed Uplinks

Maximize network versatility with adaptive SFP/SFP+ optical fiber modules supporting seamless auto-negotiation across 1G, 2.5G, and 10G speeds. This flexible architecture allows your core infrastructure to adapt easily to varying bandwidth demands and legacy fiber connections without requiring hardware replacements.

EDGE Core Switch (ECS)

EDGE Core Switch, Terabyte of non-blocking switching capacity, offers high-performance, bare-metal data center switches for top-of-rack and spine network deployment, providing flatter and scalable topologies and a non-blocking fabric.



The EDGE Core switch (ECS) support 10G to 100G ports in 32-port configurations. ECS can be deployed as a ToR switch supporting 10 GbE, 40 GbE, or 100GbE server connections in a leaf configuration. The ECS series offers high performance and flexibility for computing and storage workloads.

Our industry-leading open networking hardware includes many features that offer efficiency, high availability, flexibility, redundancy, different airflow options, and hot-swappable fans/PSUs to provide non-blocking performance for mission-critical workloads.

Network Ports — Modular Slot Architecture
The front panel provides 4 swappable NIC module slots. Each slot accepts one module at a time. Modules are hot-pluggable (with admin acknowledgment) and auto-detected by EDGE-Network on insertion. The maximum port count is 32-ports.

8× 1GbE SFP (Fiber) **SKU: EDGE-NIC-8x1G-SFP** *8 ports of 1GbE fiber via SFP transceivers. Ideal for access-layer uplinks, branch aggregation, and FTTH deployments.* ***Chipset:*** *Intel 82580EB* ***Speed:*** *1 Gbps per port*	**8× 1GbE RJ45 (Copper)** **SKU: EDGE-NIC-8x1G-RJ45** *8 ports of 1GbE copper RJ45. For legacy copper distribution, in-rack server access, and management networks.* ***Chipset:*** *Intel 82580EB* ***Speed:*** *10/100/1000 Mbps per port*
4× 10GbE SFP+ **SKU: EDGE-NIC-4x10G-SFP** *4 ports of 10GbE via SFP+ transceivers. Aggregation uplinks for access switches and DC spine connections.* ***Chipset:*** *Intel 82599ES* ***Speed:*** *10 Gbps per port*	**2× 40GbE QSFP+** **SKU: EDGE-NIC-2x40G-QSFP** *2 ports of 40GbE via QSFP+ transceivers. High-bandwidth spine uplinks and DC fabric interconnects.* ***Chipset:*** *Intel XL710 / Broadcom* ***Speed:*** *40 Gbps per port*
2× 100GbE QSFP28 **SKU: EDGE-NIC-2x100G-QSFP** *2 ports of 100GbE via QSFP28 transceivers. Spine-to-spine, DCI, and carrier-grade interconnects.* ***Chipset:*** *Mellanox ConnectX-6 / Intel E810* ***Speed:*** *100 Gbps per port*	**Empty Slot Cover** **SKU: EDGE-NIC-BLANK** *Passive blanking module for unused slots. Maintains airflow and EMI shielding.* ***Chipset:*** *N/A* ***Speed:*** *N/A*

EDGE CORE SWITCH

100GbE
Local Network Connectivity QSFP28

< 1ms
Achieving an Intra-Facility Latency

99.99%
Platform Availability High Redundancy

1U/2U
flexible rackmount architecture

EDGE Core Switch Specifications	
Feature Category	**Supported Protocols & Capabilities**
Layer 2 Switching	
VLAN	*IEEE 802.1Q, 802.1ad QinQ, Port-based, Protocol-based, MAC-based, Voice VLAN, Management VLAN*
Spanning Tree	*IEEE 802.1D (STP), 802.1w (RSTP), 802.1s (MSTP)*
Link Aggregation	*IEEE 802.3ad (LACP) up to 16 groups (8 ports/group), MC-LAG (active-active redundancy)*
Interface Bonding	*Active-backup, Balance-TCP, Balance-XOR, 802.3ad (LACP).*
Multicast Snooping	*IGMP v1/v2/v3 snooping, MLD v1/v2 snooping.*
Ring Protection	*ERPS Ring (ITU-T G.8032 fast protection switching)*
Traffic Control & Diagnostics	*Storm Control (broadcast, multicast, unknown-unicast per port), Loop Detection (per-VLAN, per-port), Port Mirroring (1-to-1, many-to-1, RX/TX/both)*
Layer 3 Routing & MPLS	
Unicast Routing	*BGP, OSPFv2/v3, IS-IS, RIP, RIPng, Static Routing, Policy-Based Routing (PBR), BFD*
Advanced BGP	*Multipath, Add-Path, Route Reflector, RPKI, EVPN, Segment Routing extensions*
MPLS & Segment Routing	*MPLS, SR-MPLS, SRv6, LDP, RSVP-TE, L3VPN, VPLS, VPWS*
Multicast Routing	*IGMPv2/v3, PIM-SM, PIM-SSM, MSDP*
VRF	*Up to 4,096 VRF instances with independent routing tables*
VPN & Overlay Tunneling	
Data Center Overlays	*VXLAN, GENEVE, EVPN, GRETAP, 6in4*
IPsec / IKEv2	*Site-to-Site, Hub-and-Spoke, DMVPN, Intel QAT hardware offload*
WireGuard	*High-speed modern encryption, up to 16,000 peers*
OpenVPN	*AES-256-GCM, TLS 1.3, up to 5,000 concurrent clients*
Legacy Tunneling	*L2TP, GRE, IPIP, VTI*
Security & High Availability	
Firewall & NAT	*Zone-based Stateful Firewall (IPv4/IPv6), SNAT, DNAT, 1:1 NAT, Port-Forwarding, NPTv6, NAT64, Hairpin NAT*
Access Control & ACLs	*IEEE 802.1X (port-based, MAC-based), RADIUS, TACACS+, L2/L3/L4 ACLs (per-port, per-VLAN)*
Layer 2 & DoS Protection	*DHCP Snooping (with Option 82), Dynamic ARP Inspection (DAI), IP Source Guard, SYN/ICMP Flood & Port Scan Prevention, CoPP (Control Plane Policing)*
QoS & Traffic Shaping	*HTB, FQ-CoDel, SFQ, TBF, DSCP marking and remarking*
System Hardening	*Role-Based Access Control (RBAC), SSH key-only authentication, BGP RPKI*
High Availability (HA)	*VRRP / VRRPe, Conntrack Sync, MC-LAG, Configuration Sync*
Management, Monitoring & Automation	
Core Network Services	*DHCP / DHCPv6 Server & Relay, DNS Forwarding, NTP, RADIUS Client, TACACS+*
Telemetry & Monitoring	*DHCP Snooping (with Option 82), Dynamic ARP Inspection (DAI), IP Source Guard, SYN/ICMP Flood & Port Scan Prevention, CoPP (Control Plane Policing)*
QoS & Traffic Shaping	*SNMP (v1, v2c, v3), sFlow, NetFlow v9, IPFIX, Syslog (RFC 3164/5424),*
Config Management	*Cisco-like CLI, versioned configuration with instant rollback*
APIs & Automation	*REST API (HTTPS/JSON), NETCONF (YANG models), Ansible, Terraform, Python hooks*



EDGE-Voice Series: EDGE Call Manager (ECM) - EDGE Voice Gateway (EVG)

A Modular IP PBX (Disaggregated VoIP Architecture) splitting core telephony functions, security layers and physical line terminations into distinct, independent hardware and software tiers over an IP network. Instead of a single appliance managing everything, the architecture distributes workloads across Voice nodes such as standalone FXS/FXO gateways, a centralized Session Border Controller (SBC) and smart call manager core.

Disaggregated VoIP Architecture Features



- ***Decoupled Call Processing & Routing:*** *The core engine (Smart Call Manager) focuses strictly on dial plans, extension state management, and call control logic, free from the hardware interrupting overhead of physical line cards.*
- ***Distributed Analog Termination:*** *Physical POTS lines and analog phone sets are terminated at the edge via independent multi-port FXO/FXS VoIP gateways connected over standard SIP/RTP data networks.*
- ***Centralized Security Edge (SBC):*** *A dedicated Session Border Controller handles perimeter defense, NAT traversal, SIP normalization, and cryptographic encryption (TLS/SRTP) for all incoming and outgoing trunks.*
- ***Modular Application Tier:*** *Voicemail, automated attendants (IVR), call recording, and CDR billing databases run as independent services or modular nodes that can scale separately from core call routing.*

EDGE Call Manager – Hardware Specifications

Processor: *Supports Intel Gen6/Gen7 Xeon E3-1200 i3/i5/i7 Core, Pentium processor*
Chipset: *Intel C236*
System memory: *Two 2133/2400MHz DDR4 slots, up to 64GB*
Ports: *8x 10/100/1000Mbps RJ-45 ports*
NIC Modules: *2x 10G SFP LAN ports NIC module Lan card based on Intel 82599ES controllers*
4x 1G SFP LAN ports NIC module Lan card based on Intel 82599ES controllers
Console Port: *One RJ-45 COM*
USB Ports: *Two USB3.0*
Indicator: *One Power LED, one HDD LED*
Power consumption: *Built-in 250W power supply*
Power input: *100 ~ 240V AC input (DC power or Redundant power)*

Supported Protocols:
Voice Protocols: (SIP RFC3261, IAX, H323), DTMF (RFC4733, SIPINFO, In-Band),
Transparent Protocols: (UDP, TCP, TLS, SRTP).

Telephony Features:
Voice Mail & Visual MWI Group Call, Hunt Group, Call Forward - Busy / No Answer / All, Call Transfer, Call Waiting, Caller ID, Call Pickup, Call Hold, Call Park, Do Not Disturb / Mute / Music on Hold, Call Queuing, Conference Bridging, Direct Inward System Access (DISA), Unlimited Auto-Attendant / IVR Menu, Flexible Time-Based Call Routing, Find Me / Follow Me, SIP Trunk, Call Detail Records (CDR).

Voice Protocols: *IPv4, IPv6, VLAN, DHCP, PPPoE, NTP, SNTP, TFTP, SSH, HTTPS, LDAP.*

Support Audio Codec: *ulaw, alaw, gsm, slin, ilbc, g.722, g.723 and g.729 A/B pass through.*
Support Video Codec: *H.263, H.263+ and H.264.*

Analog and Digital lines supported: *Analog Lines FXO/FXS, GSM, SIP Trunk, Digital (E1, T1, ISDN BRI/PRI), SS7*

Deployment Flexibility

EDGE Call Manager (ECM) adapts to enterprise's infrastructure strategy, offering both dedicated hardware and cloud-ready software models. Whether enterprise prioritize on-site physical control or virtualized scalability, both deployment options run on the exact same proven EDGE-Voice codebase to deliver a unified enterprise voice experience.

Appliance Call Manager

A dedicated 1U/2U on-premises hardware appliance for enterprise voice management, offering full physical control over call data. Pre-loaded with PBX software, the appliance features integrated physical interfaces for PSTN lines, analog desk phones, SIP trunk gateways. That provides enterprises with complete physical control and security over their voice infrastructure and call data.

Virtual Call Manager

A flexible, software-based PBX solution built for virtual machines and cloud servers without dedicated hardware. Built on the exact same PBX codebase as physical EDGE appliances, it eliminates dedicated hardware requirements while delivering full enterprise-grade telephony capabilities—including intelligent call routing, voicemail, auto-attendants, and SIP trunk—over an IP connection.



Flexible Deployment

On-Premises ECM
Is a Locally hosted VoIP and voice switching phone system installed directly inside your own office or private data center.

Full Control: You manage all security policies, system settings, local SIP trunks, and call data privacy yourself.

Offline Reliability: Internal calls between offices continue to work even if your internet service is going down.

Lower Long-Term Costs: You pay a one-time upfront cost to own the hardware rather than paying ongoing monthly per-user fees.

Ideal Users: This setup works best for larger businesses with dedicated IT staff, strict compliance rules, or existing local phone lines (like FXO, PRI, or ISDN).

Hosted ECM
is a cloud-based voice and call-routing service that eliminates the need for expensive on-site PBX hardware.

Low Upfront Cost: Businesses only need IP phones or softphone apps for existing desktops and mobile devices.

Predictable Pricing: Costs follow a scalable subscription model where you only pay for the features and extensions you use.

Zero Maintenance: The service provider handles all security, updates, hardware upkeep, and up-time guarantees off-site.

Ideal Users: It works best for startups, small-to-medium businesses, and remote teams that need fast setup and low initial costs.

Hybrid ECM
is a dual-architecture phone system that combines local on-premises hardware with cloud-hosted voice and remote features. It allows companies to keep existing office infrastructure while connecting remote workers, ensuring zero downtime, and gradually migrating to the cloud.

Zero Downtime: Pairs local on-premises reliability with cloud backup for continuous operation.

Easy Expansion: Connects remote branches and home workers via the cloud while keeping headquarters on local hardware.

Gradual Upgrade: Protects current hardware investments by letting businesses move to the cloud at their own pace.

Ideal Users: Designed for mid-sized, multi-branch, or transitioning companies moving away from legacy phone systems.

EDGE Voice Gateway (EVG)

EDGE Voice Gateway bridges traditional phone lines and analog devices with EDGE Call Manager (ECM) over an IP network.

Hardware Specification:

FXS interface:8/16/24/32 (RJ11)
*Console interface: 1*RJ45, 115200bps*
*USB interface: 1*USB 2.0, Full speed*
Network interface: 1 WAN, 3 LAN full Gigabit Ethernet ports (1000 Base-T Ethernet)
Input voltage: 100VAC-240VAC; 50/60Hz

Software specifications:

Support static IP, DHCP, PPPoE.
Support WAN sub-interface
Support DHCP server, NAT, DNS, IGMP, VLAN.
Support static routing, dynamic routing, policy routing
Support PPTP, L2TP, IPSec SSL, VPN
Support Switch VLAN, Trunk Port, support NTP Client
Support Bandwidth Control, QoS Policy
Support Security Firewall, APR Defense, DDoS protection

Voice Services:
basic calling, calling number display, call forwarding, three-way calling, finding malicious calls, outgoing restrictions, do not disturb, abbreviated dialing, hotline service, alarm clock, busy callback, conference call, support IMS SIP-based voice services, NGN SIP voice services, voice services based on the H.248 protocol.

Voice Codec: *G.711U, G.711A, G.723, G.729.*

EDGE Voice Gateway

EDGE Voice Gateway 4 FXS	EDGE Voice Gateway 8 FXS	EDGE Voice Gateway 16 FXS	EDGE Voice Gateway 32 FXS
			

EDGE VOICE GATEWAY

Signal and Protocol Conversion

Audio Compression and Codecs

Intelligent Call Routing

PSTN Failover and Redundancy

Intelligent Sensor-Cloud Infrastructure for Industrial Automation

EDGE Sensor Cloud enables centralized collection, processing, and analysis of sensor data via a cloud platform. It connects a wide variety of sensors—such as those in machines, plants, or environmental monitoring systems—to a scalable IT infrastructure that processes data in real time and makes it available for various applications.



Sensors capture physical or chemical measurements (e.g., temperature, pressure, humidity, vibrations) and transmit them over a network—often wirelessly—to a cloud platform. There, the data is stored, analyzed, and visualized. Users can access the information via dashboards and use it for monitoring, optimization, or automated decision-making.

- **Low latency:** *Processing directly at the data source reduces response times, making it ideal for time-sensitive applications.*
- **Reduced Data Traffic:** *Only preprocessed or aggregated data is transferred to the cloud—this reduces the load on networks and conserves resources.*
- **High scalability:** *The platform can be flexibly adapted to growing data volumes and new sensors—as needed.*
- **Cost-Effectiveness:** *Thanks to pay-as-you-go models, cloud resources are used as needed—which reduces infrastructure and operating costs.*

Sensor models

Our comprehensive range of industrial sensors provides accurate, real-time monitoring across critical environmental and operational parameters, including temperature, pressure, vibration, liquid level, and multi-gas leak detection. Designed to adapt to diverse installation requirements, every sensor is available in two durable enclosure options: a rugged IP68 weatherproof housing engineered for harsh outdoor and submersible environments, and a lightweight IP54 ABS enclosure tailored for standard indoor applications.



Material: Diecast/Waterproof
Mounting: Heavy-Duty Screws



Material: Plenum Rated ABS
Rating: Dust/Splash Proof



Multi gas detectors

The MQW series of gas sensors are very easy to use and very handy. The gas sensor can detect gas concentrations anywhere from 200 to 10000ppm. MQW series of gas sensors use a small heater inside with an electro-chemical sensor. They are sensitive to a range of gases and are used indoors at room temperature. Can be used for industrial safety.

SenseEdge Gateway & Cloud Connectivity

SenseEdge Gateway acts as a centralized hub that aggregates real-time data from multiple connected sensors simultaneously. The SenseEdge gateway processes incoming data locally and securely transmits the consolidated data to cloud via protocol HTTPS, enabling seamless remote monitoring, analytics, and centralized management from a single access point.

SENSEDGE Gateway DG101	SENSEDGE Gateway DG102
	
L106 32-bit RISC Microprocessor (Tensilica Xtensa)	*64-bit Quad-Core ARM Cortex-A53*
16 MB Flash Memory (External QSPI up to 16 MiB)	*1 GB LPDDR2 SDRAM + 16 MB Flash*
802.11n Wi-Fi (WEP, WPA/WPA2, Open)	*10/100 Ethernet, 802.11n Wi-Fi*
11 Digital I/O Pins, 1 Analog Input (3.2V Max), SPI, I2C, UART, 10-bit ADC	*40-pin extended GPIO, 4x USB 2.0, 1x CSI Camera Connector, SPI, I2C, UART*



Thermo-Cooler, Wall-mounted cooling units.

Cooling units keep the enclosure internal temperature at a constant level, which is independent of the ambient temperature. The air route meets individual requirements. Two separate circuits prevent the ingress of dust into the enclosure.

Thermo-Cooler - Meeting the Cooling Needs for different sectors.

Thermo-Cooler can be found in many different industries to protect a wide range of equipment:

- *Network and Communications Gear.*
- *Security Cameras, and Systems.*
- *PLC and Process Controls.*
- *Touch Screens and Digital Displays.*
- *UPS and Battery bank.*



Key Features

- ***Zero-Maintenance Design:*** *Eliminates filters, condensate drains, and refrigerant recharges. The only moving components are the fan.*
- ***Wide Operating Temperature Range:*** *Handles standard ambient environments up to 140°F (60°C), with custom options available for extreme duty up to 170°F.*
- ***Thermal Stability:*** *Cools below ambient temperatures while maintaining rock-solid operational stability, offering fine-tuned control options down to ±0.5°C to protect sensitive components.*
- ***Reliability:*** *the expected average operating time is 100,000 hours under normal operating conditions.*
- ***Eco-Friendly Thermal Design****: 100% green cooling architecture operating entirely free of Chlorofluorocarbons (CFCs), No chemical compounds containing carbon, chlorine, and fluorine (HCFCs), chemical refrigerants, and industrial oils.*
- ***Flexible and Portable:*** *Standard units can be mounted in multiple orientations (horizontal or vertical).*







Enclosure cooling

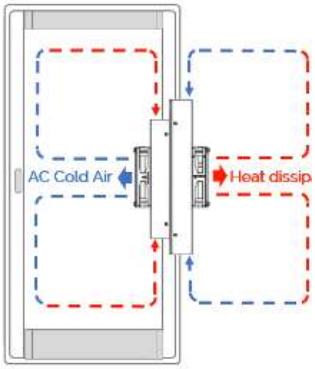
Various cooling methods are available for enclosures. But using Thermo-Cooler cooling units keeps the enclosure temperature at a constant level. Two separate circuits prevent the ingress of dust into the enclosure.

To ensure the right balance between the service life of electronics and the outlay on climate control, a temperature of 35 °C is normally recommended.

Cool, Protect and Save electronic equipment

Keep your electronics performing in tough environments, whether it is located indoors, outdoors or in adverse conditions. Thermos-cooler protects electronics in the most rugged environments with innovative and dependable thermos-cooling & temperature-controlled enclosures.

Mounting Thermo-cooler in electronic cabinet



Available Voltage	Current	Mounting Flange Dimensions	Weight	Mounting
220/240 VAC	*1.8 A*	*48 x 24 x 12*	*9.8 Kg*	*Horizontal/Vertical*



Product	Models	Key Spec.	Factory	Base SKU
EDGE Firewall				
EDGE Firewall Series	*EDGE-DC-VFW* *EDGE-ENT-1U* *EDGE-DC-2U*	*From 1 GbE SFP up to 100GbE QSFP+*	*stateful FW appliance 1U, 2U and Virtual Firewall*	*EDGE-ENT-PSU-350W* *EDGE-ENT-NIC-8x1G-SFP* *EDGE-ENT-NIC-8x1G-RJ45* *EDGE-ENT-NIC-4x10G 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*
EDGE Cloud Infrastructure (ECI)				
EDGE-Cloud Infrastructure (ECI)	*EDGE-ECI*	*From 1o GbE, single server 40TB up to 100GbE, 30 racks, 960TB*	*Rack-scale ECI-32*	*EDGE-ECI-ISO* *EDGE-ECI-1U-ENT* *EDGE-ECI-2U-ENT* *EDGE-ECI-3U-ENT* *EDGE-ECI-4U-IND*
EDGE PoE Switch				
EDGE PoE Switch Series	*PoE-8* *PoE-16* *PoE-24* *PoE-48*	*8–48 PoE+ ports, 200–740W*	*1U*	*EDGE-PoE-8* *EDGE-PoE-16* *EDGE-PoE-24* *EDGE-PoE-48*
EDGE Core Switch (ECS)				
EDGE Core Switch (ECS)	*EDGE-CORE-32*	*1.25 TBps, 32 ports, 4 NIC slots*	*1U/2U*	*EDGE-CORE-32* *EDGE-CORE-NIC-8x1G-RJ45* *EDGE-CORE -NIC-8x1G-SFP* *EDGE-CORE-NIC-4x10G* *EDGE-CORE-NIC-2x40G* *EDGE-CORE-NIC-2x100G* *EDGE-CORE-PSU-500W*
EDGE-Voice – Unified Communications				
EDGE-Voice (Unified Communications)	*EDGE Call Manager (EDGE-.CM)* *EDGE Voice Gateway (EDGE-VGW)*	*4-32 FXS/FXO, SIP/H.248, G.711/729*	*1U/2U*	*EDGE-CM-SMB* *EDGE-CM-ENT* *EDGECM-VM* *EDGE-VGW-4 (4fxo/fxs)* *EDGE-VGW-8 (8fxo/fxs)* *EDGE-VGW-16 (16fxs)* *EDGE-VGW-24 (24fxs)* *EDGE-VGW-32 (32fxs)*
Sensor-Cloud				
Sensor Cloud	*Sensors (vibration, differential pressure, Thermal, RPM) SenseEdge Gateway*	*Wireless sensors, MQW gas series*	*Wall-mount ABS, IP68*	*SenseEdge-GW* *Sensors+* *SENSOR-CLOUD-SUP-1Y*
Thermo-Cooler				
Thermo-Cooler	*Rugged Air Conditioner*	*Up to 60°C, 100k hr MTBF*	*Panel mount*	*THERMO-DC-12* *THERMO-FAN-DC* *THERMO-PSU-12*

For more information about this service offering, please visit lanex.uk or contact our representative.



LANEX

LANEX is a leader in cloud-native networking software and network disaggregation solutions. Powered by TeleSources Solutions, founded in 2015 based in London. For more information, visit us at www.lanex.uk