Lanner

Edge AI Platforms

Accelerating AI-driven Inference for Edge Infrastructures




Bringing AI to the Edge

In today's fast-paced digital landscape, Edge AI is truly transforming the way network operations are conducted. By enabling real-time data processing and analysis directly at the source, Edge AI significantly reduces latency, minimizes bandwidth consumption, and enhances both privacy and security. This revolutionary approach allows organizations to harness the power of AI closer to where data is generated, leading to faster, more efficient, and highly secure operations across a wide range of industries and applications.

At Lanner, we are at the forefront of this transformation, offering a comprehensive suite of Edge AI platforms specifically designed to bring advanced AI capabilities to the edge of your network. Our product portfolio includes everything from compact Edge AI gateways to robust, high-performance servers, all meticulously engineered for real-time decision-making at the network's edge. These solutions are built to meet the demanding needs of applications such as computer vision, network security, and telecommunications, where low latency, stringent security measures, and efficient data handling are not just desirable, but essential.

By integrating Lanner's Edge AI solutions, organizations can unlock new levels of operational efficiency and security, ensuring they are well-equipped to meet the challenges of today and tomorrow. Whether you are looking to enhance network security, improve data processing speeds, or implement cutting-edge AI applications, Lanner's reliable and innovative Edge AI platforms provide the foundation you need to succeed.

Jeans Tseng
CTO

Edge AI Platforms Overview

Integrated with AI hardware accelerators and pre-validated with AI solution partner, Lanner's Edge AI platforms enable edge computing solutions with specific requirements for low-latency, high-throughput, and/or power efficiency in reliable and mission-critical applications.

These AI-accelerated hardware solution includes Edge AI servers, rugged computers, acceleration modules and AI starter kits. Pre-validated by world's leading software companies, Lanner provides system integrators a turnkey, all-in-one edge AI platform, composed of a high-performing AI model and a powerful NVIDIA-certified edge AI appliance.

Intelligent Video Analytics

Enable higher volume & low-latency video analytics solutions for mission-critical applications, such as smart retail, smart manufacturing, physical security, traffic monitoring, and more.

Network Security AI

Lanner provides comprehensive AI-accelerated network security appliances designed to conduct proactive security defense, enabling real-time threat detection, adaptive responses, and predictive analytics.

Telco AI

Build scalable, GPU-accelerated multi-node edge computing platform for software-defined 5G/6G applications, such as multi-access edge computing (MEC) and RAN intelligence.

Mainstream LLMs & GenAI

Lanner provides MGX-based Edge AI servers by consolidating CPU, GPU, and DPU in a single unit, ensuring efficient handling of extensive AI models for large-scale LLMs and generative AI deployment.

Ecosystem Partners

Silicon Partners

NVIDIA
NVIDIA has been a pioneer in accelerated computing. The company's invention of the GPU in 1999 sparked the growth of the PC gaming market, redefined computer graphics, ignited the era of modern AI and is fueling the creation of the metaverse.

Intel
Intel OpenVINO™ toolkit is a comprehensive toolkit for quickly developing applications and solutions that solve a variety of tasks, including emulation of human vision, automatic speech recognition, natural language processing, and many others.

Computer Vision Software Partners

Chooch
Chooch is a leading Vision AI platform that combines Generative AI and Computer Vision to help businesses automate repetitive, manual visual review tasks.

GoodVision
GoodVision provides automation tools in all stages of traffic projects, from AI traffic data collection to traffic modelling and real-time traffic control.

Ironyun
IronYun offers more than 30 advanced AI video analytics functions to bring intelligence and accuracy to existing camera and video infrastructures.

Network Optix
Network Optix is at the forefront of video software innovation, developing sophisticated solutions that convert video data into practical insights for businesses and industries of all kinds.

Landing AI
Landing AI™ is pioneering the Data-Centric AI movement in which companies with limited data sets can realize the business value of AI.

Gorilla
Gorilla is a global solution provider in Security Intelligence, Network Intelligence, Business Intelligence and IoT technology.

Milestone Systems
Milestone Systems aims to make the world see by empowering people, businesses and societies with data-driven video technology.

Network Security & Telco Software Partners

F5
F5 partners with the world's largest, most advanced organizations to optimize and secure every app and API anywhere, including on-premises, in the cloud, or at the edge.

Arrcus Networks
The Arrcus Connected Edge (ACE) platform offers best-in-class networking with the most flexible consumption model at the lowest total cost of ownership.

Namla
Namla offers a Software platform which allows B2B (Business To Business) and MSPs (Managed Service Providers) customers to have a turnkey hybrid-cloud native Edge solution.

Intelligent Video Analytics

AI video analytics is the process of leveraging artificial intelligence and machine learning algorithms to analyze and interpret video data. This allows for the automatic detection of objects, recognition of actions and behaviors, and generation of business intelligence that can be used to improve safety, security, and efficiency in a variety of applications.

Lanner offers a full range of AI-accelerated Edge AI platforms that enable video analytics solutions in industrial settings. With embedded AI accelerators to process deep learning inferencing in real-time, these edge AI computers are designed to handle multiple streams of video simultaneously, detecting and analyzing a wide range of objects, faces, and actions in industrial environments.

Edge AI Servers for Video Analytics

- Retail Ad Metrics & Dwell Analysis
- Factory Quality Inspection
- Traffic Management
- City Phycial Security

Edge AI Computer

11th Gen. Intel Core

11th Gen. Intel Core

Intel® Core™ Ultra

Model Name	IIoT-I530	IIoT-I531	EAI-I500 NEW
Processor System	11th Gen Intel® Core i7-1185GRE (Tiger Lake)	11th Gen Intel® Core i7-1185GRE (Tiger Lake)	Intel® Core™ Ultra 7/5 (Meteor Lake-H/U)
AI Acceleration Support	M.2 Hailo-8 AI Accelerator (by request)	M.2 Hailo-8 AI Accelerator (by request)	Hailo-8 AI Accelerator (by request)
Fanless	Yes	Yes	Yes
Max. Memory	64GB	64GB	96GB
Storage	1x mSATA, 1x M.2 2280 M-key NVMe 1x SATA 2.5" Drive bay	1x mSATA, 1x SATA 2.5" Drive bay	1x M.2 2280 M-key NVMe 2x 2.5" SATA drive bay
Ethernet	2x 2.5GbE RJ45, 6x GbE RJ45 for PoE+	6x 2.5Gbps RJ45 (4x RJ45 For PoE+)	3x 2.5GbE RJ45, 1x GbE RJ45
I/O	2x COM, 8xDI, 4xDO, 4x USB 3.0	4x COM, 4xDIO, 4x USB 3.0	2x COM, 4x DIO, 4x USB
Expansion	1x M.2 3042/50/52 B-key for 5G Sub6 / LTE 1x M.2 2230 E-key for WiFi	1x M.2 3042/50/52 B-key for 5G Sub6 / LTE 1x M.2 2230 E-key for WiFi 1x PCIe X1 Gen 3	1x M.2 3042/50/52 B-key for 5G Sub6 / LTE 1x M.2 2230 E-key for WiFi
Power	+24VDC	+24VDC	+24VDC
Mechanical	270 x 76 x 180 mm	270 x 76 x 220 mm	287 x 76 x 180 mm
Environment	-40°C~55°C	-40°C~75°C	0°C~40°C
Driver Support	Depending on Intel Driver Release	Windows 10 IoT Linux Dabian 11 Pre-install	Windows10, Windows 11 Linux Ubuntu
Certification	CE/FCC, Class A	CE/FCC, Class A / UL	CE/FCC, Class A / UL

Edge AI Computer

NVIDIA Jetson Orin

NVIDIA Jetson Orin

Industrial Edge AI

Model Name	EAI-I131	EAI-I133 NEW	EAI-I731 NEW
Processor System	NVIDIA® Jetson Orin NX/Nano	NVIDIA® Jetson Orin NX/Nano	12th/13th/14th Gen Intel® Core i
AI Acceleration Support	NVIDIA Ampere Architecture	NVIDIA Ampere Architecture	Nvidia A2, L4, RTX 3000 or any FHHL GPU cards (up to 75W)
Fanless	YES	YES	YES
Max. Memory	16GB	16GB	64GB
Storage	1x M.2 M-key NVMe	1x M.2 M-key NVMe	1x M.2 B-key SATA 1x M.2 M-key NVMe 2x 2.5" SATA drive bay
Ethernet	2x GbE RJ45 for PoE+	3x GbE RJ45	2x 2.5 GbE RJ45, 1x RJ45 LOM
I/O	2x COM, Audio, 2x USB 2.0 1x HDMI, 4x DIO	3x COM, 4x USB, 1x HDMI	1x Console, 2x COM, 1x HDMI, 1x DP 1.4 8x USB 3.2 Gen1, 4x DIO, Audio
Expansion	1x M.2 B-key for 5G Sub6 / LTE 1x M.2 E-key for WiFi	1x M.2 B-key for 5G Sub6 / LTE 1x M.2 E-key for WiFi	1x M.2 B-key for 5G Sub6 / LTE 1x M.2 E-key for WiFi 1x PCIe X16 Gen 4, 1x PCIe X4 Gen 3
Power	Typical +12VDC	Typical +12VDC	Typical +12 or +24VDC
Mechanical	201 x 65 x 196 mm	167 x 179.5 x 30 mm	198 x 250 x 286 mm
Environment	-40°C~75°C	0°C~40°C	-25~65°C
Driver Support	Linux Open Source On NVIDIA SDK	Linux Open Source On NVIDIA SDK	Win 10 IoT Linux Dabian 11, Ubuntu 20.04
Certification	CE/FCC Class A, UL	CE/FCC Class A, UL	CE/FCC Class A, UKCA, UL, CB, RoHS

Edge AI Computer

Industrial Edge AI

Vehicle Edge AI

Railway Edge AI

Model Name	EAI-I730 NEW	EAI-V330	EAI-R530 NEW
Processor System	12th/13th/14th Gen. Intel® Core i	Intel® Atom® x6000 Series	13th Gen Intel® Intel Core i
AI Acceleration Support	NVIDIA L4, A2, A10, RTX 4000 or any FHFL GPU cards (Up to 300W)	M.2 Hailo-8 AI Accelerator	Hailo-8 AI Accelerator and Nvidia MXM A2000 GPU cards
Fanless	YES	YES	YES
Max. Memory	64GB	32GB	64GB
Storage	1x M.2 B-key SATA 1x M.2 M-key NVMe 4x 2.5" SATA drive bay	1x eMMC128GB onboard 1x 2.5" SATA drive bay	2x M.2 M-key NVMe 2x 2.5" SATA drive bay in a caddy
Ethernet	2x 2.5GbE RJ45	6x GbE RJ45(4x GbE PoE), 1x OOB Port	4x 2.5GbE RJ45, 2x 2.5GbE PoE
I/O	2x COM, 8x USB 3.2, 4x DIO	4x USB, 2x COM, 1x CAN 2.0 4xDI, 2xDO, 2x HDMI, DVI	3x USB, 2x HDMI
Expansion	1x M.2 B-key for 5G Sub6 / LTE 1x M.2 E-key for WiFi 2x PCIe X16 Gen 4, 2x PCIe X4 Gen 3	1x M.2 B-key for 5G Sub6 / LTE 1x M.2 E-key for WiFi 1x PGN module for 5G Sub6 / LTE	2x M.2 B-key for 5G Sub6 / LTE 1x M.2 E-key for WiFi 1x PCIe X8 Gen 3 MXM 4x PGN module for 5G Sub6 / LTE
Power	100 ~ 230VAC	12 ~ 48VDC	24-110VDC
Mechanical	374 x 250 x 419 mm	273.8 x 98 x 185 mm	438 x 300 x 111.25 mm
Environment	-25°C~65°C	-40°C~70°C	-40°C~70°C
Driver Support	Linux Kernel 5.x, Ubuntu Win 10	Linux kernel 2.6.X, Ubuntu 20.04, Debian 10, Win 10/11 IoT	Linux Debian 10, Win 11 IoT
Certification	CE/FCC Class A, UKCA, UL, CB, RoHS	CE/FCC Class A, UKCA, E13, RoHS3, UL/cUL (UL-62368-1) & CB, MIL-STD-810G	CE/FCC Class A, MIL-STD-810G, EN50155, EN45545-2, UL/cUL 62368-1

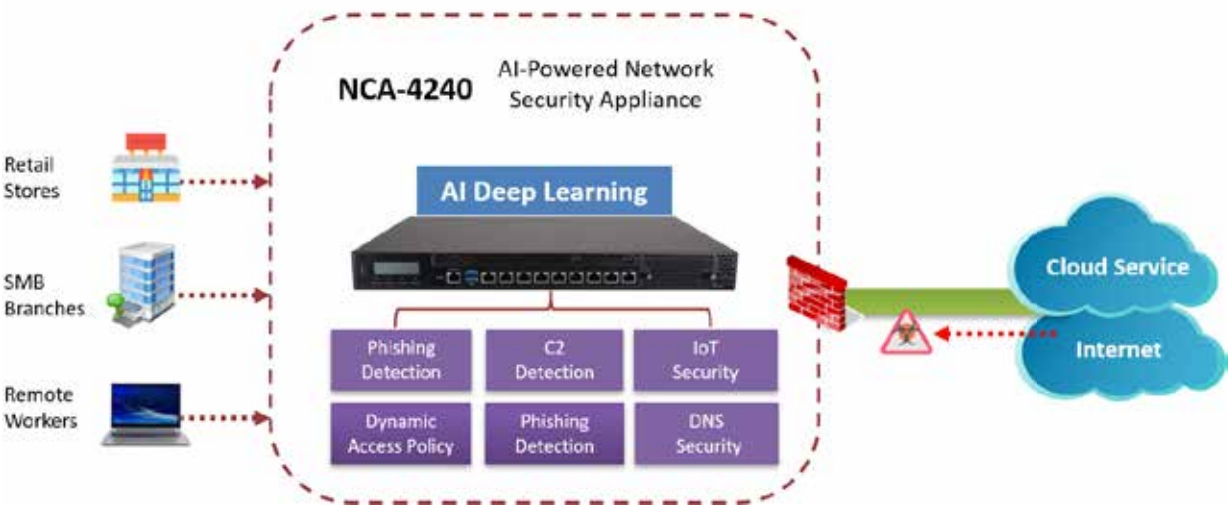
Network Security AI

In the rapidly evolving landscape of network security, the integration of AI has emerged as a game-changer. By employing advanced algorithms and machine learning, AI-powered network security has ushered in a new era of proactive defense, enabling real-time threat detection, adaptive responses, and predictive analytics.

Specializing in providing network security hardware solutions, Lanner stands as a vanguard pioneering the fusion of advanced network appliances and AI accelerators that empower AI-driven network security with unparalleled efficiency, performance, and scalability. Lanner's AI-powered network appliances can process colossal volumes of data, enabling AI algorithms to swiftly discern anomalies, predict threats, and fortify defences in real time.

AI Starter Kit: AI-Powered Next-Generation Firewall

Next-generation firewalls (NGFWs) are evolving to combat new cybersecurity threats such as ransomware, zero-day attacks, and phishing, as well as ongoing threats like distributed denial of service (DDoS) attacks. This evolution incorporates artificial intelligence and machine learning (AI/ML) to create a more dynamic rules database. AI-driven detection capabilities enable NGFWs to quickly recognize and respond to cyber threats by being trained on extensive databases of known threats, allowing them to infer and counter new variants automatically. Lanner's NCA-4240, featuring 14th Gen Intel® Core™ desktop processors, is optimized for AI-based NGFW performance, balancing cost, power consumption, and form factor for branch office applications.



Network AI Appliance

Intel Amston Lake

Intel Raptor Lake

AMD Genoa/Bergamo

Model Name	NCA-1250 NEW	NCA-4240 NEW	NCA-5330 NEW
Processor System	Intel® Atom x7405C/x7835RE x7425E/N97	14th Gen Intel® Core™ Processor	AMD EPYC 9004 Series Processors (Genoa/Bergamo)
AI Acceleration Support	Integrated Intel® UHD Graphics 770	Integrated Intel® UHD Graphics 770	NVIDIA L4, or any HHHL GPU Card (up to 75W)
Fanless	N/A	N/A	N/A
Memory	16GB	64GB	512GB
Storage	1x M.2 (SATA) 2280 1x EMMC 16GB Onboard (By SKU)	2x 2.5" HDD/SSD SKU A: 1x M.2 2242 SATA SKU B: 1x M.2 2242 SATA & 1x M.2 2280 NVME	2 x 2.5" SSD/HDD 1 x M.2 2280 (SATAIII / PCIex5)
Ethernet	5x 2.5GbE RJ45	8 x 2.5GbE RJ45, 1x NIC Slot	1 x GbE RJ45, x 4x NIC Slots
I/O	1x Console, 1x USB 3.0	1x Console, 2x USB 3.0	1x Console, 2x USB 3.0
Expansion	N/A	1 x PCIE x8 Gen4 FH/HL (By SKU) 1 x M.2 2230 E Key (By SKU)	1 x PCI-E*8 HH/HL
Power	100~240V	90~264V	110~240V
Mechanical	358 x 290 x 135 mm	438 x 321 x 44 mm	438 x 650 x 44 mm
Environment	0°C-40°C	0°C-40°C	0°C-40°C
Driver Support	Linux	Linux	Linux
Certification	RoHS, CE/FCC Class B	RoHS, CE/FCC Class A, UKCA, UL	RoHS, CE/FCC Class A, UL

Network AI Appliance

Intel Emerald Rapids

Intel Ice Lake

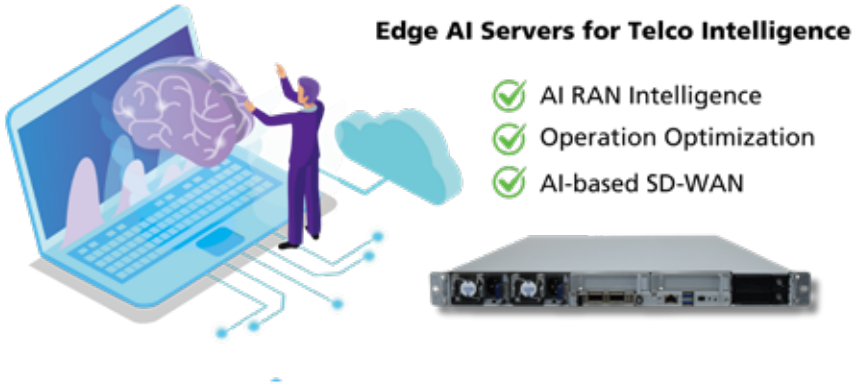
Intel Emerald Rapids

Model Name	NCA-5540	NCA-6520	NCA-6530
Processor System	5th/4th Gen Intel® Xeon® Scalable Processor (Emerald Rapids)	3rd Gen Intel® Xeon® Scalable Processor	5th Gen Intel® Xeon® Scalable Processor
AI Acceleration Support	NVIDIA L4, or any HHHL GPU Card (up to 75W)	Nvidia L40S, or any FHFL GPU cards (up to 350W)	NVIDIA L40S, or any FHFL GPU cards (up to 350W)
Fanless	N/A	N/A	N/A
Memory	768GB	1536GB	1536GB
Storage	2x 2.5" HDD/SSD Or 4x 2.5" HDD/SSD 1x M.2 (SATA) 2280 B+M Key 2x M.2 NvME (PCIe) 2280 M Key	2x 3.5" or 2.5" Internal Bays 3x M.2 2280 M-Key	SKU A & C: 2x 2.5" Swappable 2x M.2 NVME 2280, 1x M.2 2280
Ethernet	2 x 2.5GbE RJ45, x 4x NIC Slots	2x GbE RJ45, 8x NIC Slots	2 x GbE RJ45, 8x NIC Slots
I/O	1x Console, 2x USB 3.0	1x Console, 1x LOM, 2x USB 3.0, 1x VGA	1x Console, 1x LOM, 2 x USB 3.0, 1x VGA
Expansion	1 x PCI-E*8 FH/HL	2x PCIe x16 FH/FL or 2x PCIe x16 FH/HL	2x PCIe x16 FH/FL or 2x PCIe x16 FH/HL
Power	110~240V	100~240V	200~240V
Mechanical	438 x 610 x 44 mm	438 x 720 x 88mm	438 x 760 x 88 mm
Environment	0°C-40°C	0°C~40°C	0°C~40°C
Driver Support	Linux	Linux	Linux
Certification	RoHS, CE/FCC Class A, UKCA, UL	RoHS, CE/FCC Class A, UL	RoHS, CE/FCC Class A, UL

Telco AI

Consolidating AI at the edge with telco networks through an edge AI platform accelerates digital transformation and enhances value creation. Edge AI optimizes network operations by analyzing massive volumes of network data in real-time, and empowers the RAN Intelligent Controller (RIC), advancing RAN capabilities with AI to improve spectral and operational efficiency.

Lanner provides scalable, carrier-grade edge AI servers that consolidate CPU, GPU, and DPU resources into a single appliance. These edge AI servers integrate Intel Xeon or NVIDIA GH200 processors, support multiple PCIe*16 slots, and are compatible with NVIDIA L4 and L40S GPUs, NVIDIA BlueField-3 DPUs, and NVIDIA ConnectX-7 network adapters.

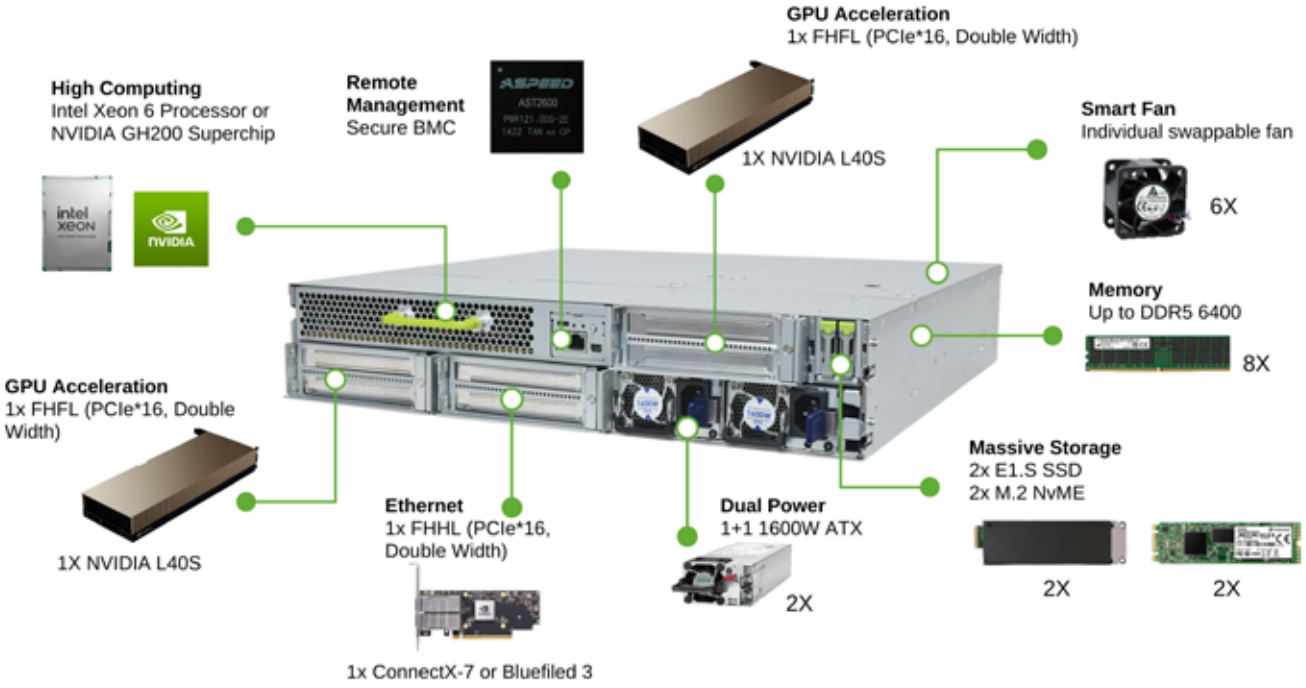


Mainstream LLMs & GenAI

Edge AI serves as a crucial enabler for Generative AI and large language models (LLMs) by providing the infrastructure to train and deploy these models locally. This approach enhances data privacy, reduces latency, and eliminates the need for constant cloud communication, leading to faster, more secure, and cost-effective AI solutions. By processing data at the edge, enterprises can harness the full potential of Gen AI and LLMs while minimizing cybersecurity risks and transmission costs.

Lanner provides edge AI servers to enable enterprises to run large-scale LLMs and perform generative AI LLM training and inferencing, delivering high-performance, low-latency AI processing directly at the edge.

NVIDIA MGX Server: ECA-6051



Edge AI Server

Intel Emerald Rapids

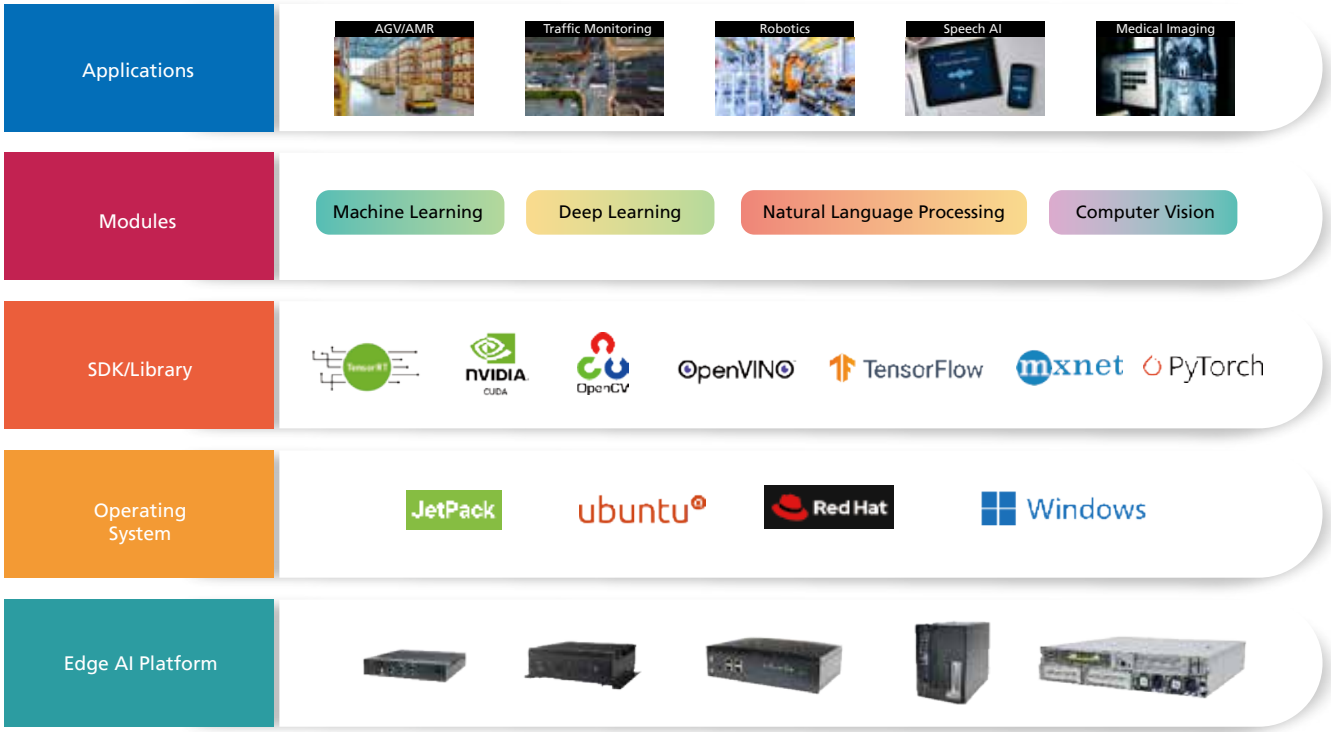
Intel Emerald Rapids

NVIDIA MGX Architecture

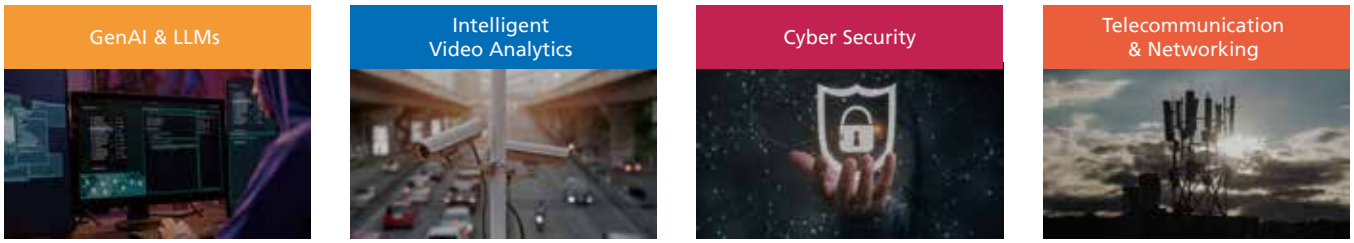
Model Name	ECA-5540	ECA-6040 NEW	ECA-6051 NEW
Processor System	5th/4th Gen Intel® Xeon® Scalable Processor (Sapphire Rapids-SP/EMR-SP)	5th/4th Gen Intel® Xeon® Scalable Processor (Sapphire Rapids-SP/EMR-SP)	NVIDIA Grace™ Arm Neoverse V2/ Intel® Xeon®6 Processor
AI Acceleration Support	Nvidia L4, L40S or any FHFL GPU cards (up to 350W)	Nvidia L4, L40S or any FHFL GPU cards (up to 350W)	Nvidia L4, L40S or any FHFL GPU cards (up to 350W)
Fanless	N/A	N/A	N/A
Memory	1024GB	1024GB	1024GB
Storage	2x 2.5" HDD/SSD 2x M.2 NVME (PCIe) 2280/2242 M-key	4x 2.5" HDD/SSD M.2: 1x NVMe 2242/2260 M-Key, 1x 2280 BB+M-Key	2x E1.S SSD, 2x M.2 NVMe 22110
Ethernet	1x GbE RJ45 for MGMT	1x GbE RJ45	1x GbE RJ45 for MGMT
I/O	1x Console, 2x USB 3.0, miniDP	1x Console, 2x USB 3.0	1x Console, 1x USB 3.0, MiniDP
Expansion	1x FHFL (PCIex16, double width, 350W) 2x LP (PCIex8) or 1x FHHL (PCIex8), 1x OCP	1x FH3/4L(PCIex16, double width, 300W) 2x LP (PCIex8), 1x OCP	SKU A: 2x PCIe*16 FH 3/4L (Double Width) 1x PCIe*16 FHHL SKU B: 1x PCIe*16 FH3/4L (Double Width) 1x PCIe*16 LP
Power	110~240V	200~240V	90~264V
Mechanical	438 x 580 x 44 mm	935 x 588 x 258 mm	438 x 420 x 88 mm
Environment	SKU A: 0°C-40°C SKU B:-5°C~50°C	0°C-40°C	0°C-40°C
Driver Support	Linux	Linux	Linux
Certification	CE/FCC, Class A	RoHS, CE/FCC Class A, UL	RoHS, CE/FCC Class A, UL, NEBS (Level 3)

AI Starter Kit

Lanner's Edge AI Starter Kits aim to deliver an all-in-one platform composed of AI-accelerated hardware and application-tailored software to accelerate time-to-market AI deployment at the industrial edge. This comprehensive kit is designed for various applications, including vision inspection, predictive maintenance, and operator monitoring.



NVIDIA Software Supported

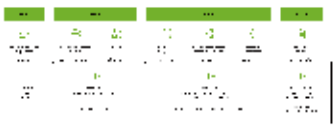


NVIDIA AI Enterprise

ECA-6040

ECA-6051

NVIDIA Metropolis



EAI-I131/130

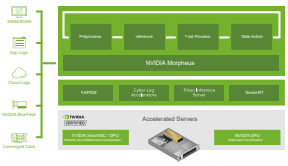
EAI-I133

EAI-I730

EAI-I731

LEC-2290

NVIDIA Morpheus



ECA-5540

NCA-6250

NCA-6530/6520

NVIDIA Aerial/DOCA

ECA-5540

ECA-6040

ECA-6051

NVIDIA

Lanner provides Edge AI appliances that support the NVIDIA JetPack SDK, offering robust tools for AI development and deployment. These appliances leverage NVIDIA's powerful AI capabilities, enabling seamless integration and efficient execution of complex AI models at the edge..

Intel

Powered by the Intel® Distribution of OpenVINO™ toolkit, EIS accelerates development, enabling quick integrations of pre-trained models (e.g., Tensorflow, Caffe, etc.) for object recognition, classification, and facial recognition in vision-based solutions.

Edge AI Starter Kit

NVIDIA Jetson Orin

NVIDIA Jetson Orin

NVIDIA A2 GPU

NVIDIA L4 GPU

Model Name	EAI-I131	EAI-I133	LEC-2290E	LEC-2290L
Processor System	NVIDIA® Jetson Orin NX/Nano	NVIDIA® Jetson Orin NX/Nano	Intel® Core™ i7-9700TE	Intel® Core™ i7-9700TE
GPU	NVIDIA® Jetson Orin NX/Nano	NVIDIA® Jetson Orin NX/Nano	NVIDIA® A2 60W	NVIDIA® L4 72W
Memory	LPDDR5 16/8/4 GB (By SKU)	LPDDR5 16/8/4 GB (By SKU)	32GB DDR4	32GB DDR4
Storage	M.2 128GB NVMe	M.2 128GB NVMe	128GB mSATA 256GB SSD	128GB mSATA 256GB SSD
Supported OS	Jetson Linux	Jetson Linux	Ubuntu 20.04	Ubuntu 20.04
Supported SDK	NVIDIA AI Stacks	NVIDIA AI Stacks	Intel OpenVINO NVIDIA AI Stacks	Intel OpenVINO NVIDIA AI Stacks

Edge AI Starter Kit

NVIDIA A10 GPU

NVIDIA A2 GPU

NVIDIA L4 GPU

Intel UHD Graphics 770

Model Name	EAI-I730M	EAI-I731E	EAI-I731L	NCA-4240C
Processor System	Intel®12th/13th/14th Gen. i9/i7/i5/ i3 Processors with R680E Chipset	Intel®12th/13th/14th Gen. i9/i7/i5/ i3 Processors with R680E Chipset	Intel®12th/13th/14th Gen. i9/i7/i5/ i3 Processors with R680E Chipset	Intel®12th/13th/14th Gen. i9/i7/i5/ i3 Processors with Q670E Chipset
GPU	NVIDIA® A10 150W	NVIDIA® A2 60W	NVIDIA® L4 72W	Intel® UHD Graphics 770 GPU. 1 x PCIE x8 Gen4 FH/HL
Memory	2x DDR4 3200MHz SODIMM Up to 64GB	2x DDR4 3200MHz SODIMM Up to 64GB	2x DDR4 3200MHz SODIMM Up to 64GB	2x DDR5 5600MHz UDIMM Up to 32GB
Storage	1x M.2 B-key SATA 1x M.2 M-key NVMe 4x 2.5" SATA drive bay	1x M.2 B-key SATA 1x M.2 M-key NVMe 2x 2.5" SATA drive bay	1x M.2 B-key SATA 1x M.2 M-key NVMe 2x 2.5" SATA drive bay	2 x 2.5" HDD/SSD, 1 x M.2 2230 E-Key NVME (PCIe Gen4 x 4)
Supported OS	Ubuntu 20.04	Ubuntu 20.04	Ubuntu 20.04	Ubuntu 20.04
Supported SDK	Intel OpenVINO NVIDIA AI Stacks	Intel OpenVINO NVIDIA AI Stacks	Intel OpenVINO NVIDIA AI Stacks	Intel OpenVINO NVIDIA AI Stacks

AI Acceleration Cards

Lanner's Falcon PCIe AI Acceleration Cards offer a convenient solution for engineers seeking to offload CPU load for low-latency deep learning inference. Equipped with high-density AI processors, the Falcon supports 1 to 6 Hailo-8™ AI processors, providing a modular Edge AI solution with exceptional processing power and energy efficiency

The Falcon AI Accelerator Cards enable legacy devices, including NVRs, Edge AI boxes, industrial PCs, and robots, to run video-intensive, mission-critical Edge AI applications via a standard PCIe interface. These applications encompass video analytics, traffic management, access control, and more.

HAILO
Empowering Intelligence

High Processing Power
Up to 156 TOPS
8000FPS of ResNet-50

High Efficiency
Typical Power Consumption 35W

Cost-effective
Lowest TOPs/$

Advanced AI Applications
Supports state-of-the-art
NN model in high resolution

Various DL Architectures
Hailo Model Zoo
Hailo TAPAAS AI Applications

Ease of HW & SW integration
Hailo AI Dataflow Compiler
Standard PCIe single slot form-factor

Falcon H8

Model No.	AI VPU	Remark
FALCON-H8A	6x Hailo-8™ AI Processor	Commercial-grade
FALCON-H8B	5x Hailo-8™ AI Processor	Commercial-grade
FALCON-H8C	4x Hailo-8™ AI Processor	Commercial-grade
FALCON-H8D	6x Hailo-8™ AI Processor	Industrial-grade
FALCON-H8E	5x Hailo-8™ AI Processor	Industrial-grade
FALCON-H8F	4x Hailo-8™ AI Processor	Industrial-grade

Falcon Lite

Model No.	AI VPU	Remark
Falcon H8L16A	2x Hailo-8™ AI Processor	Commercial-grade
Falcon H8L16D	4x Hailo-8™ AI Processor	Commercial-grade
Falcon H8L16E	2x Hailo-8™ AI Processor	Industrial-grade
Falcon H8L16H	4x Hailo-8™ AI Processor	Industrial-grade
Falcon H8L8A	2x Hailo-8™ AI Processor	Commercial-grade
Falcon H8L8D	4x Hailo-8™ AI Processor	Commercial-grade
Falcon H8L8EE	2x Hailo-8™ AI Processor	Industrial-grade
Falcon H8L8H	4x Hailo-8™ AI Processor	Industrial-grade
Falcon H8L4A	1x Hailo-8™ AI Processor	Commercial-grade
Falcon H8L4B	2x Hailo-8™ AI Processor	Commercial-grade
Falcon H8L4E	1x Hailo-8™ AI Processor	Industrial-grade
Falcon H8L4F	2x Hailo-8™ AI Processor	Industrial-grade

NVIDIA GPU Supported

Lanner's Edge AI platforms support a wide range of NVIDIA GPU cards, delivering scalable and powerful AI performance at the edge. These platforms enable real-time data processing, deep learning, and AI-driven analytics across various applications, from smart cities to industrial automation. With Lanner, businesses can deploy and easily scale AI solutions to meet growing demands.

24GB RAM, PCIex16 Gen4 HHHL,1S, 72W

48GB RAM, PCIex16 Gen4 FHFL,2S, 350W

16GB RAM, PCIex8 Gen4 HHHL,1S, 60W

24GB RAM, PCIex16 Gen4 FHFL,1S, 150W

Model Name	NVIDIA L4	NVIDIA L40S	NVIDIA A2	NVIDIA A10
ECA-4027 	✔			
ECA-4035 	✔	✔		
ECA-5540 	✔	✔		
ECA-6040 	✔	✔		
NCA-6530 		✔		
NCA-5330 	✔			
LEC-2290 	✔		✔	
EAI-I730 	✔		✔	✔
EAI-I731 	✔		✔	

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