



2024 Product Catalog

The Purpose-built Network Appliances and Edge AI Computers





About Lanner

Lanner Electronics Inc. (TAIEX 6245) is a globally renowned hardware provider specializing in the design, engineering, and manufacturing of advanced network appliances and rugged industrial computers. With 37 years of experience, Lanner offers dependable and cost-effective computing platforms renowned for their exceptional quality and performance. Presently, Lanner boasts a substantial and dynamic workforce of around 1,000 highly experienced employees worldwide. The company's headquarters are located in Taipei, Taiwan, and it operates subsidiaries in the US, Canada, China, and Europe.

Global Manufacturing Capabilities

Taipei, Taiwan

- Area 30,000 m²
- 3 x SMT, 2x DIP and 5x assembly lines
- Production capacity:
50,000 system units/month

Certifications

- ISO 26262:2021
- ISO 9001:2008
- ISO 14001:2004
- ISO 28000:2007
- QC 080000:2012
- OHSAS 18001:2007
- TL 9000:R5.5
- ISO 27001:2013

Service Capabilities

- Custom design and production in board, chassis and system
- High mix low volume manufacturing
- Quality assurance services
- Global order fulfillment services

Fremont, USA

- Area 27,000 sf²
- 5 x Assembly lines
- Production capacity:
2,000 system units/month

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IT Security

Desktop Network Appliances



NCA-1040

Intel Atom X6413E/N6415 CPU with
4 GbE RJ45 Ports



NCA-1515

Intel Denverton CPU with
6x GbE RJ45, 2x GbE SFP Ports



NCA-1516

Intel Denverton-R CPU
6 GbE RJ45 (w/ 2 PoE+ Option)
2 10GbE SFP+ Ports



NCA-1526

Intel Atom Parker Ridge with
4 GbE RJ45, 2 10G SFP+,
2 GbE RJ45 (PoE+ Support Optional)



VP-200

NXP LS1046A SoC with
2 SFP/RJ45 GbE Combo Ports,
4 RJ45 GbE Ports

Low-footprint Intel CPU Engine

To address the demand for building efficient and secured network edge, Lanner adopts the latest generation of Intel® Atom™ and Celeron® processors to supply entry security gateway/UTM/SD-WAN/uCPE for SMBs or branch networks.

Intel QuickAssist Technology

This hardware-assisted security engine is not only designed to optimize the cryptographic and data compression applications, but also reserves processor cycles for critical application processing while improving overall system performance.

Intel Virtualization Technology (Intel VT)

Intel® VT provides hardware assist to the virtualization software, reducing its size, cost, and complexity; it is part of Lanner's value-added software packages intended for optimizing the performance, security, agility and manageability. Intel® Virtualization Technology such as VT-x, VT-d and SR-IOV are baked into Lanner appliances.

Wireless RF Connectivity

Lanner desktop appliances feature Wifi concurrent, dual LTE, expansion slots for Wi-Fi/5G/LTE/Wifi6 RF modules and external antenna for wireless network connectivity.

Fanless Design

System fans, considered one of the most error-prone components, are removed from appliances while at the same time allowing heat dissipation off the top of the corrugated aluminum enclosure.

Versatile Mounting Kits

For mounting flexibility, Lanner desktop appliances are compatible with wallmount or rackmount options for suitable installation in any environment setting.

Desktop Network Appliances



Feature		NCA-1040	NCA-1040SE
Form Factor		Desktop	Desktop
Platform	Processor Options	Intel® Atom X6413E (Elkhart Lake)	Intel® Atom X6413E Or Celeron N6210 (Elkhart Lake)
	CPU Socket	onboard	onboard
	Chipset	SoC	SoC
	Security Acceleration	N/A	N/A
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS
System Memory	Technology	DDR4 3200 MHz SODIMM	DDR4 3200 MHz SODIMM
	Max. Capacity	32 GB	32 GB
	Socket	1 x 260-pin SODIMM	1 x 260-pin SODIMM
Networking	Ethernet Ports	4 x GbE RJ45 Intel® i210AT	4x 2.5GbE RJ45 Intel i226V (SKU A: Support For 1x PoE+)
	Bypass	N/A	N/A
	NIC Module Slot	N/A	N/A
LOM	I/O Interface	N/A	N/A
	OPMA Slot	N/A	N/A
I/O Interface	Reset Button	1	1
	LED	Power/Status/Storage/M.2/Mini PCIe	Power/Status/Storage/M.2/Mini PCIe
	Power Button	1	1
	Console	1 x RJ45	1 x RJ45
	USB	1 x USB 3.0	1 x USB 3.0
	LCD Module	N/A	N/A
	Display	1 x Display Port (No Audio)	1 x Display Port (No Audio)
	Power Input	1 x DC Jack With Lock	1 x DC Jack With Lock
Storage	HDD/SSD Support	N/A	N/A
	Onboard Storage	1 x M.2 (SATA)	1 x M.2 (SATA)
	PCIe	N/A	N/A
Expansion		1 x Mini-PCIe (PCIe/USB2.0) 1 x M.2 (PCIe/USB 3.0) 3042/3052 B Key 2x Nano SIM	SKU A: 1x Mini-PCIe (USB2.0) SKU A: 1x M.2 (USB 3.1) 3042/3052 B Key SKU A: 2 x Nano SIM
Miscellaneous	Watchdog	Yes	Yes
	Internal RTC with Li Battery	Yes	Yes
	TPM	N/A	N/A
Cooling	Processor	Passive CPU heatsink	Passive CPU heatsink
	System	Fanless (Default); 1 x 5-pin Fan Connector (Optional)	Fanless (Default); 1 x 5-pin Fan Connector (Optional)
Environmental Parameters	Temperature	0~40°C Operating -40~70°C Non-Operating	0~40°C Operating -40~70°C Non-Operating
	Humidity (RH)	5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating
System Dimensions	(WxHxD)	183 x 32 x 168 mm	183 x 32 x 168 mm
	Weight	0.9 kg	0.9 kg
Power	Type / Watts	60W Power Adapter	40W Power Adapter
	Input	AC 100~240V @50~60Hz	AC 100~240V @50~60Hz
Approvals and Compliance		RoHS, CE/FCC Class B (Class A with PoE), UL, VCCI, UKCA	RoHS, CE/FCC Class B (Class A with PoE), UL, VCCI, UKCA



NCA-1513	NCA-1515	NCA-1516
Desktop	Desktop	Desktop
Intel® Atom® C3000 (Denverton)	Intel® Atom® C3000 (Denverton)	Intel® Atom® C3000 (Denverton)
onboard	onboard	onboard
SoC	SoC	SoC
Intel® QuickAssist Technology (by SKU)	Intel QuickAssist Technology	Intel QuickAssist Technology
AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
DDR4 2133/1866 MHz ECC/Non-ECC SODIMM (By SKU)	DDR4 2400/2133/1866 MHz ECC/Non-ECC SODIMM (By SKU)	DDR4 2400/2133/1866 MHz ECC/Non-ECC SODIMM (By SKU)
32 GB	32 GB	64 GB
1 x 260-pin SODIMM	2 x 260-pin SODIMM	2 x 260-pin SODIMM
4 x GbE RJ45 Intel® SoC Integrated MAC 2 x GbE RJ45 Intel® i210AT or i211AT (by SKU) 2x GbE SFP Intel® i210-IS(by SKU)	4 x GbE RJ45 Intel® SoC Integrated MAC 2 x GbE RJ45 Intel® i350 and (by SKU) 2 x GbE SFP Intel® i350 (by SKU)	4 x GbE RJ45 Intel® i350 2 x GbE RJ45 SoC Integrated MAC (Optional PoE+ Support) 2 x SFP+ SoC Integrated MAC
2 pair Gen3 (By SKU)	1 pair Gen3 (By SKU)	N/A
N/A	N/A	N/A
N/A	1 x RJ45 (By SKU)	N/A
N/A	Yes	N/A
1	1	1
Power/Status/Storage	Power/Status/Storage	Power/Status/Storage
1	1	1
1 x RJ-45	1 x RJ-45	1 x RJ-45
2 x USB 2.0 or 2 x USB 3.0 (by SKU)	2 x USB 2.0	2 x USB 3.0
N/A	N/A	N/A
N/A	N/A	N/A
1 x DC Jack	1 x DC Jack	2 x DC Jack (Optional 2nd DC Jack)
1 x 2.5" Bay (Optional)	1 x 2.5" Bay (Optional)	N/A
1 x EMMC 8GB (SKU A/B/C/D)	1 x EMMC 8GB	1 x EMMC 8GB (By Request)
N/A	N/A	N/A
1 x Mini-PCIe (PCIe/USB2.0), 1 x M.2 2280/2242 (SATA3.0), 1x M.2 3042 (USB3.0), 1 x Nano SIM for M.2	2 x Mini-PCIe (PCIe/USB2.0) 1 x M.2 2242 B Key (USB3.0) 2 x Nano SIM for M.2 (Using Optional LTE Module)	1 x Mini-PCIe (PCIe/USB2.0) 1x M.2 3052/3580 B Key (PCIe/USB 3.0) 1x M.2 3042 B Key (USB 3.0) 1x M.2 2242 B Key (SATA) 2 x Nano SIM (Using Optional LTE Module)
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Passive CPU heatsink	Passive CPU Heatsink	Passive CPU Heatsink
1 x Cooling Fan w/ Smart Fan	1 x Cooling Fan w/ Smart Fan (SKU A~E) 2 x Cooling Fans w/ Smart Fan (SKU F)	2 x Cooling Fans w/ Smart Fan or Fanless (By Request)
0~40°C Operating -20~70°C Non-Operating	0~40°C Operating -20~70°C Non-Operating	0~40°C Operating -20~70°C Non-Operating
5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating
231 x 44 x 200 mm	231 x 44 x 200 mm	231 x 44 x 200 mm
1.2 kg	1.2 kg	1.2 kg
40W Power Adapter	36W or 60W Power Adapter (By SKU)	60W Power Adapter
AC 100~240V @50~60Hz, 1.7A	AC 100~240V @50~60 Hz	AC 100~240V @50~60 Hz
RoHS, CE/FCC Class B, UL	RoHS, CE/FCC Class A, UL	RoHS, CE/FCC Class B, UL



Feature		Description	NCA-1525	NCA-1526	VP-200
Form Factor			Desktop	Desktop	Desktop
Platform	Processor Options		Intel® Atom® C5325/C5315 (Parker Ridge)	Intel® Atom® C5325/C5315 (Parker Ridge)	NXP LS1046A
	CPU Socket		onboard	onboard	onboard
	Chipset		SoC	SoC	SoC
	Security Acceleration		Intel® QuickAssist Technology	Intel® QuickAssist Technology	N/A
BIOS			AMI SPI Flash BIOS	AMI SPI Flash BIOS	N/A
System Memory	Technology		DDR4 2933/2400 MHz ECC/Non-ECC SODIMM	DDR4 2933/2400 MHz ECC/Non-ECC SODIMM	DDR4 2100 MHz SODIMM
	Max. Capacity		64 GB	64 GB	32 GB
	Socket		2 x 260-pin SODIMM	2 x 260-pin SODIMM	1 x 260-pin SODIMM
Networking	Ethernet Ports		4x GbE RJ45, 2x 10G SFP+, 2x 2.5G RJ45 (PoE+ Support Optional)	4x GbE RJ45, 2x 10G SFP+, 2x GbE RJ45 (PoE+ Support Optional)	2x SFP/RJ45 GbE Combo Ports, 4x RJ45 GbE Ports (2x PoE+ Support Optional)
	Bypass		N/A	N/A	1 x Pair of Gen 3 (By SKU)
	NIC Module Slot		N/A	N/A	N/A
LOM	I/O Interface		N/A	N/A	N/A
	OPMA Slot		N/A	N/A	N/A
I/O Interface	Reset Button		1	1	1
	LED		Power/Status/Storage	Power/Status/Storage	Power/Status/Storage
	Power Button		1	1	1
	Console		1 x RJ-45	1 x RJ-45	1 x RJ-45
	USB		2 x USB 3.0	2 x USB 3.0	1 x USB 3.0
	LCD Module		N/A	N/A	N/A
	Display		N/A	N/A	N/A
	Power Input		2 x DC Jack With Lock	2 x DC Jack	2 x DC Jack
Storage	HDD/SSD Support		N/A	N/A	1 x M.2 B+M Key 2280 SSD (SATA Signal)
	Onboard Storage		N/A	N/A	1 x eMMC 16GB
Expansion	PCIe		N/A	N/A	N/A
	mini-PCIe		1 x Mini-PCIe (PCIe/USB2.0) 2 x M.2 3042/3052 B Key (USB3.0) 1 x M.2 2280 B Key (SATA), 2 x Nano SIM for M.2	1 x Mini-PCIe (PCIe/USB2.0) 2 x M.2 3042/3052 B Key (USB3.0) 1 x M.2 2280 B Key (SATA) 2 x Nano SIM for M.2	2 x Nano SIM 2 x M.2
Miscellaneous	Watchdog		Yes	Yes	Yes
	Internal RTC with Li Battery		Yes	Yes	Yes
	TPM		Yes	Yes	Yes
Cooling	Processor		Passive CPU heatsink	Passive CPU Heatsink	Passive CPU Heatsink
	System		2 x Cooling Fan w/ Smart Fan	2 x Cooling Fan w/ Smart Fan	Fanless
Environmental Parameters	Temperature		0~40°C Operating -40~70°C Non-Operating	0~40°C Operating -40~70°C Non-Operating	0~40°C Operating -40~70°C Non-Operating
	Humidity (RH)		5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating
System Dimensions	(WxHxD)		251 x 44 x 200 mm	251 x 44 x 200 mm	231 x 44 x 200 mm
	Weight		TBD	TBD	2 kg
Package Dimensions	(WxHxD)		TBD	TBD	TBD
	Weight		TBD	TBD	TBD
Power	Type / Watts		90W Power Adapter	90W Power Adapter	40W Power Adapter
	Input		AC 100~240V @50~60 Hz	AC 100~240V @50~60 Hz	AC 100~240V @50~60 Hz
Approvals and Compliance			RoHS, CE/FCC Class B (Without PoE+), UL, VCCI, UKCA	RoHS, CE/FCC Class B (Without PoE+), UL, VCCI, UKCA	RoHS, CE/FCC Class B (Without PoE), UL, UKCA, VCCI (By Request)

IT Security

Rackmount Network Appliances



NCA-4030

Intel® Ice Lake D CPU
4 1G RJ45, 1 2.5G RJ45, 1 1G RJ45 (LOM), 4 10G SFP+



NCA-5710

Intel® Skylake-SP/Cascade Lake-SP CPU
Onboard IPMI Chip, 4 10G SFP+, 4 NIC Slots



NCA-2513

Intel® Atom™ C3000 2~8 Cores (Denverton-R)
6x GbE RJ45 or 8x GbE RJ45 (By SKU)



NCA-6530

Intel® Sapphire Rapids-SP CPU
8 NIC Slots, 24 288-pin DDR5 4800MHz R-DIMM



• Support Intel Xeon/Core CPUs



• IPMI



• Redundant Power



• Modular Fans

Intel® Core™ and Xeon® CPU

Lanner rackmount appliances feature the latest server-grade Intel® Core™ and Xeon® CPUs optimized to offer high throughputs and function as next-gen firewalls deployed in the enterprise network and cloud infrastructures.

Scalable Modules and Cards

Scale the performance and throughputs up for your network appliances with over 20 different copper, fiber bypass Ethernet modules including 1/10/40/50/100GbE LAN options, and also the add-on accelerator cards providing high performance tunneling and encryption.

High Availability Design

To ensure the 24/7 non-stop network operation, Lanner appliances support high availability design including dual management ports, hot-swappable cooling fans and redundant power supplies.

Trusted Platform Module

Our appliances support Trusted Platform Module (TPM) that provides the integrated cryptographic keys and secure boot to protect the hardware from unauthorized accesses.

AMD EPYC™ 7000 Series CPU

With the flexibility to choose from 8 to 64 cores, AMD EPYC™ enables you to deploy the right hardware platforms to meet your workload needs from virtualized infrastructure to large-scale big-data and analytics platforms and legacy line-of-business applications.

BMC Remote Manageability

Lanner provides SSL encrypted BMC add-on card and custom SDK to remotely configure, monitor, reboot and shut down your appliances.

Data Plane Development Kit (DPDK)

Lanner appliances support Intel DPDK that manages communication workload consolidation to accelerate network packet processing performance by 3 to 4 times.

Intel Virtualization Technology

Lanner appliances come with Intel® VT (VT-x, VT-d and SR-IOV) built in, providing hardware assist to the virtualization software, reducing its size, cost, and complexity and optimizing performance, security, agility and manageability.

Rackmount Network Appliances



Feature		Description	NCA-2510	NCA-2513	NCA-2520/2522
Form Factor			1U 19" Rackmount	1U 19" Rackmount	1U 19" Rackmount
Platform	Processor Options		Intel® Atom™ C3000, 4~16 Cores (Denverton)	Intel® Atom™ C3000 2~8 Cores (Denverton-R)	Intel® Atom P5300 (Snow Ridge NS)
	CPU Socket		onboard	onboard	onboard
	Chipset		SoC	SoC	SoC
	Security Acceleration		Intel® QuickAssist Technology	Intel® QuickAssist Technology	N/A
BIOS			AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
System Memory	Technology		DDR4 2400MHz ECC or Non-ECC UDIMM/RDIMM	DDR4 2400MHz ECC or Non-ECC UDIMM/RDIMM	DDR4 2933MHz REG Or Non-ECC UDIMM
	Max. Capacity		128GB Or 64GB	64GB	256GB
	Socket		4 x 288pin DIMM	2 x 288-pin DIMM	4 x 288-pin DIMM
Networking	Ethernet Ports		1 x GbE RJ45 Intel® i210 4 x GbE RJ-45 Intel® i350-AM4 4 SFP+ Intel® Denverton Integrated (By SKU)	2 x GbE RJ45 Intel® i210 2 x GbE RJ45 Intel® i350-AM2 (By SKU) 4 x GbE RJ45 Intel® SoC Integrated MAC	8 x GbE RJ45 Intel i350-AM4, 4 x 10G SFP+ Intel SoC Integrated MAC, 4 x 10G SFP+ Intel C827 Via SFI Signal (By Project)
	Bypass		2 pairs Gen3 (By SKU)	2 pairs Gen3 (By SKU)	2 pairs Gen3
	NIC Module Slot		1	1	1
LOM	I/O Interface		1 x RJ45 (By SKU)	N/A	Optional
	OPMA Slot		Yes	N/A	N/A
I/O Interface	Reset Button		1	1	1
	LED		Power/Status/Storage	Power/Status/Storage	Power/Status/Storage
	Power Button		1 x ATX Power switch	1 x ATX Power switch	1 x ATX Power switch
	Console		1 x RJ45	1 x RJ45	1 x RJ45
	USB		2 x USB 2.0	2 x USB 3.0 or 2.0 (By SKU)	2 x USB 2.0
	LCD Module		2x20 character LCM 4 x keypads	2x20 character LCM 4 x keypads	N/A
	Display		From OPMA slot (Optional)	N/A	1 x VGA From OPMA Slot (Optional)
	Power Input		AC power inlet on PSU	AC Power Inlet on PSU	AC Power Inlet on PSU
Storage	HDD/SSD Support		2 x 2.5" bays	2 x 2.5" bays (By SKU)	2 x 2.5" Internal
	Onboard Storage		1 x mSATA	1 x M.2	1 x M.2 (SATA III/PCIe*2 Signal)
Expansion	PCIe		1 x PCI-E*8 HH/HL (Optional)	1 x PCI-E*8 or *4 FH/HL (By SKU)	1 x PCI-E*8 Or 2x PCI-E*4 FH/HL (By Project)
	mini-PCIe		N/A	Yes (By SKU)	1 x Mini-PCIe (PCIe/USB2.0)
Miscellaneous	Watchdog		Yes	Yes	Yes
	Internal RTC w/ Li Battery		Yes	Yes	Yes
	TPM		Yes (optional)	Yes	N/A
Cooling	Processor		Passive CPU heatsink	Passive CPU Heatsink	Passive CPU heatsink
	System		2 x cooling fans with smart fan	1 x Cooling Fan	3 x cooling fans with smart fan
Environmental Parameters	Temperature		0~40°C Operating -20~70°C Non-Operating	0~40°C Operating -20~70°C Non-Operating	0~40°C Operating -20~70°C Non-Operating
	Humidity (RH)		5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating
System Dimensions	(WxDxH)		438 x 321 x 44 mm	438 x 321 x 44 mm	438 x 429 x 44 mm
	Weight		4.4 kg	4.4 kg	10.1 kg
Package Dimensions	(WxDxH)		540 x 500 x 230 mm	540 x 500 x 230 mm	TBD
	Weight		8 kg	8 kg	TBD
Power	Type / Watts		150W ATX Single PSU	150W ATX Single PSU	300W 1+1 AC/DC Redundant CRPS PSU
	Input		AC 90~264V @47~63Hz	AC 90V~264V @47~63Hz	AC 90~264V @47~63Hz
Approvals and Compliance			RoHS, CE/FCC Class A, UL	RoHS, CE/FCC Class A, UL	RoHS, CE/FCC Class A, UL



NCA-4220	NCA-4240 NEW	NCA-4030 NEW	NCA-4035 NEW
1U 19" Rackmount	1U 19" Rackmount	1U 19" Rackmount	1U 19" Rackmount
Intel® Xeon E or Core™ i7/i5/i3 or Pentium® Or Celeron® (Coffee Lake)	Intel® Alder Lake S	Intel® Xeon® D-1700 4~10 Cores	Intel® Xeon® D2700 4~20 Cores
1 x LGA1151	1 x LGA1700	1 x Onboard LGA1150	1 x Onboard
Intel® H310/Q370/C246	Intel® H610E/Q670E	N/A	N/A
N/A	N/A	Intel® QuickAssist Technology (By SKU)	Intel® QuickAssist Technology (By SKU)
AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
DDR4 2666MHz ECC(By CPU for C246 only) or Non-ECC UDIMM	DDR5 4800 Non-ECC UDIMM	DDR4 2933MHz REG or ECC/Non-ECC RDIMM	DDR4 3200 MHz REG ECC Or Non-ECC UDIMM/ RDIMM
32GB	64GB	128GB	256GB
2 x 288pin DIMM	2 x 288pin DIMM	4 x 288-pin DIMM	4 x 288-pin DIMM
8 x Or 6 x GbE RJ45 Intel® i210	1 x GbE RJ45 With LED MGMT Via i219 8 x 2.5GbE RJ45 With LED Via i226	4 x 1G RJ45, 1 x 2.5G RJ45, 1 x 1G RJ45 (LOM), 4 x 10G SFP+	2 x GbE RJ45 Via I210-AT 8 x GbE RJ45 Via I350-AM4 4 x 10G SFP+ (Default) 4 x 25G SFP28 (By OEM Project)
Up to 3 pairs Gen3 (By SKU)	3 Pairs Gen3 SE	N/A	N/A
1	1	2	2
-	N/A	1 x RJ45	1 x RJ45
-	N/A	Yes	Yes
1	1	1	1
Power/Status/Storage	Power/Status/Storage	Power/Status/Storage	Power/Status/Storage
1 x ATX Power switch	1 x ATX Power switch	1 x ATX Power switch	1 x ATX Power switch
1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
2 x USB 3.0	2 x USB 3.0	2 x USB 3.0	2 x USB 3.0
2x20 character LCM 4 x keypads	2x20 character LCM 4 x keypads	N/A	N/A
HDMI (Optional)	N/A	N/A	N/A
AC power inlet on PSU	AC power inlet on PSU	AC power inlet on PSU	AC power inlet on PSU
2 x 2.5" bays	2 x 2.5" bays	2 x 2.5" bays	N/A
1 x M.2	SKU A: 1 x M.2 2242 (M Key) SATA SKU B: 1 x M.2 2242 (M Key) SATA & 1 x M.2 2280 (M Key) NVME (PCIe Gen4 x 4)	1 x M.2	2 x M.2 2280 / 1 x M.2 2242
1 x PCI-E*8 FH/HL (Optional)	1 x PCIe x8 Gen4 FH/HL (SKU B Only)	1 x PCI-E*8 FH/HL (Optional), 1 x PGN LTE Module (Optional)	1 x Gen4 PCIe*8 & 1 x Gen4 PCIe*16
1 x Mini-PCIe (PCIe / USB2.0)	1 x M.2 2230 E Key (SKU B Only)	N/A	N/A
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes (optional)	N/A	Yes (optional)	Yes
Passive CPU heatsink	Passive CPU heatsink	Passive CPU heatsink	Passive CPU heatsink
3 x Or 2 x cooling fans with smart fan	4 x cooling fans with smart fan	3 x cooling fans with smart fan	4 x cooling fans with smart fan
0~40°C Operating -20~70°C Non-Operating	0~40°C Operating -40~70°C Non-Operating	0~40°C Operating -20~70°C Non-Operating	0~40°C Operating -20~70°C Non-Operating
5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating
438 x 321 x 44 mm	438 x 321 x 44 mm	438 x 510 x 44 mm	438 x 44 x 321 mm
7.5 kg	19.3 kg	9.4 kg	8.6 kg
540 x 500 x 230 mm	588 x 494 x 185 mm	739 x 215 x 582 mm	739 x 215 x 582 mm
8.5 kg	TBA	13 kg	15 kg
220W ATX Single PSU	220W ATX Single PSU	450W 1+1 Redundant PSU	300W 1+1 Redundant PSUs Or 350W Single PSU
AC 100~240V @50~60 Hz	AC 90~264V @47~63 Hz	AC 90~264V @47~63 Hz	Redundant: AC 100~240V @50~60Hz Single: AC 100~240V @47~63Hz
RoHS, CE/FCC Class A, UL	RoHS, CE/FCC Class A, UKCA, UL	CE/FCC Class A, UL, RoHS	CE/FCC Class A, UL, RoHS

Rackmount Network Appliances



Feature		Description	NCA-5230	NCA-5530	NCA-5540
Form Factor			1U 19" Rackmount	1U 19" Rackmount	1U 19" Rackmount
Platform	Processor Options		Intel® Core® i9/i7/i5/i3 Or Xeon W Processors (Comet Lake-S)	3rd Gen Intel® Xeon® Scalable CPU (Ice Lake SP)	4th Gen Intel® Xeon® Scalable processor (Sapphire Rapids SP)
	CPU Socket		1 x LGA1200	1 x LGA4189	1 x LGA4677
	Chipset		Intel® W480E	Intel® C621A/C627A	Intel® Emmitsburg PCH
	Security Acceleration		N/A	Intel® QuickAssist Technology (By SKU)	Intel® QuickAssist Technology
BIOS			AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
System Memory	Technology		DDR4 2933/2666 MHz ECC/Non-ECC UDIMM	DDR4 3200/2933/2666/2400/2133/MHz RDIMM/LRDIMM	DDR5 4800MHz REG DIMM
	Max. Capacity		128GB	512GB	768GB
	Socket		4 x 288-pin DIMM	8 x 288pin DIMM	12 x 288pin DIMM
Networking	Ethernet Ports		8x GbE RJ45 8x SFP	1 x GbE RJ45 Intel i210	2 x GbE RJ45 Intel i226 LM
	Bypass		4 Pairs (For RJ45 Copper Only)	Depends on NIC Module Specifications	Depends on NIC Module Specifications
	NIC Module Slot		2	4 or 2	4 or 2
LOM	I/O Interface		Optional	1 x RJ45 (Optional) *Share with ETH0	Yes, 1x LOM Port (Via BMC Chip)
	OPMA Slot		Yes	Yes	Yes (Support AST2600 IPMI Card)
I/O Interface	Reset Button		1	1	1
	LED		Power/Status/Storage	Power/Status/Storage	Power/Status/Storage
	Power Button		1 x ATX Power Switch	1 x ATX Power switch	1 x ATX Power switch
	Console		1 x RJ45	1 x RJ45	1 x RJ45
	USB		2 x USB 3.0	2 x USB 3.0	2 x USB 3.0
	LCD Module		4 x Keypads, 16x2 Character LCD	N/A (Optional)	N/A (Optional)
	Display		VGA (Optional)	1 x VGA, From OPMA Slot (Optional)	Yes (VGA Via IAC-AST2600 IPMI Card)
	Power Input		AC Power Inlet on PSU	AC power inlet on PSU	AC power inlet on PSU
Storage	HDD/SSD Support		2 x 2.5" Bays	2 x 2.5" Internal	2 or 4 x 2.5" Internal
	Onboard Storage		1 x M.2 (SATA) 2242/2280 B+M key	1 x M.2-2280 (SATA)	1 x M.2 (SATA) 2280 B+M Key 2 x M.2 NvME (PCIe) 2280 M Key
Expansion	PCIe		1 x PCI-E*8 FH/HL (Optional)	N/A (Default); 1x PCI-E*16 FH/HL (By Project)	1 x PCI-E*8 HH/HL (Optional)
	mini-PCIe / NVME		N/A	N/A	N/A
Miscellaneous	Watchdog		Yes	Yes	Yes
	Internal RTC with Li Battery		Yes	Yes	Yes
	TPM		Yes	Yes (Optional TPM2.0)	Yes (Optional TPM2.0)
Cooling	Processor		Passive CPU Heatsink	Passive CPU heatsink	Passive CPU heatsink
	System		4 x Cooling Fans with Smart Fan	5 x Or 4 x Individual Hot-swappable Cooling Fans w/ Smart Fan (By SKU)	5 x Smart Fan
Environmental Parameters	Temperature		0~40°C Operating -40~70°C Non-Operating	0~40°C Operating -20~70°C Non-Operating	0~40°C Operating -20~70°C Non-Operating
	Humidity (RH)		5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating
System Dimensions	(WxDxH)		438 x 468 x 44 mm	438 x 610 x 44mm	438 x 650 x 44 mm
	Weight		7.6 kg	10.5kg	10.5kg
Package Dimensions	(WxDxH)		739 x 582 x 215 mm	739 x 215 x 582mm	TBA
	Weight		15.8 kg	18.5kg	TBA
Power	Type / Watts		350W 1+1 ATX Redundant PSUs (SKU A) 350W Single PSU (SKU B)	550W 1+1 ATX Redundant PSUs	1300W CRPS AC PSU
	Input		TBD	AC 100~240V @47~63Hz	TBA
Approvals and Compliance			RoHS, CE/FCC Class A, UKCA, UL	RoHS, CE, FCC Class A, UL	RoHS, CE/FCC Class A, UKCA, UL



NCA-6040 NEW	NCA-6520	NCA-6530 NEW
2U 19" Rackmount	2U 19" Rackmount	2U 19" Rackmount
4th Gen Intel® Xeon® Processor Scalable Family (Sapphire Rapids-SP)	3rd Gen Intel® Xeon® Scalable CPU (Ice Lake SP)	4th Gen Intel® Xeon® Processor Scalable Family (Sapphire Rapids-SP)
1 x LGA 4677	2 x LGA4189	2 x LGA 4677
Intel® C741	Intel® C627A	Intel® C741
Intel® QuickAssist Technology	Intel® QuickAssist Technology	Intel® QuickAssist Technology
AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
DDR5 4800MHz RDIMM	DDR4 3200/2933/2666/2400/2133MHz RDIMM/LRDIMM	DDR5 4800MHz RDIMM
768GB	1536GB	1536GB
12 x 288pin DIMM	24 x 288-pin DIMM	24 x 288-pin DIMM
2 x GbE RJ45 With LED Dual MGT By Intel® I226-LM	2 x GbE RJ45 Intel® i350-AM2	2 x GbE RJ45 Intel® i350-AM2
N/A	Depends on NIC Module Specifications	Depends on NIC Module Specifications
8 Or 4	8	8
Yes, 1x LOM Port (Via BMC Chip)	1 x RJ45	1 x RJ45
Yes (Support AST2600 IPMI Card)	IPMI Onboard	IPMI Onboard
1	1	1
Power/Status/Storage	Power/Status/Storage	Power/Status/Storage
1 x ATX Power switch	1 x ATX Power switch	1 x ATX Power switch
1 x RJ45	1 x RJ45	1 x RJ45
2 x USB 3.0	2 x USB 3.0	2 x USB 3.0
N/A	N/A	Yes
VGA (Via IPMI Card)	1 x VGA (Optional)	1 x VGA (Internal Pin Header)
AC power inlet on PSU	AC power inlet on PSU	AC power inlet on PSU
2 x 3.5" Or 2x2.5" HDD/SSD	2x 3.5" or 2.5" Swappable	SKU A & C: 2 x 2.5" Swappable
1 x M.2 (SATA) 2280 B+M Key, 2 x M.2 NVMe (PCIe) 2280 M Key	2x M.2 (NVME); 1x M.2 (SATA)	2x M.2 NVME 2280; 1x M.2 2280 SATA
1 x PCI-E*8 FH/HL (Optional)	N/A (Optional) SKU A: 1x PCIe x16 Gen 4 FH/FL Size Bracket & 1x PCIe x16 Gen 4 FH/HL Size Bracket (Optional) SKU B: 2x PCIe x16 Gen 4 FH/FL Size Bracket	SKU A: N/A (Default); 2x PCIe x16 FH/HL Dual Slots (Optional) SKU C: N/A (Default); 2x PCIe x16 FH/HL Dual Slots (Optional)
N/A	N/A	N/A
Yes	Yes	Yes
Yes	Yes	Yes
Optional	TPM2.0 (Optional)	TPM2.0 (Optional)
Passive CPU heatsink	Passive CPU heatsink	Passive CPU heatsink
4 x Smart Fans	4 x Individual Hot-swappable cooling fan with smart fan	6 x Individual Hot-swappable Cooling Fans with Smart Fan
0~40°C Operating -40~70°C Non-Operating	0~40°C Operating -20~70°C Non-Operating	0~40°C Operating -20~70°C Non-Operating
5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating
438 x 650 x 88 mm	438 x 720 x 88mm	438mm x 760mm x 88mm
24 kg	19.3kg	21.2kg
TBD	588 x 997 x 250mm	588mm x 926mm x 303mm
TBD	32 kg	31.2 kg
1600W CRPS AC PSU	Default: 1300W/2000W 1+1 ATX Redundant PSUs Optional: 1600W 1+1 ATX Redundant PSUs	1600W/2000W 1+1 ATX Redundant PSUs
TBD	AC 90~264V @47~63Hz	AC 200~240V @50~60Hz
RoHS, CE/FCC Class A, UKCA, UL	RoHS/RoHS, CE, FCC Class A, UL	RoHS/RoHS, CE, FCC Class A, UL

AMD Network Appliances



Feature		NCA-4112	NCA-5310	NCA-6120 NEW
Form Factor		1U 19" Rackmount	1U 19" Rackmount	2U 19" Rackmount
Platform	Processor Options	AMD EPYC™ 3000 Series (4~8 Cores)	AMD 3rd Gen EPYC™ Processor Family (Codename Milan)	AMD EPYC 7000 Series With Support For Milan & Rome (64C/128T)
	CPU Socket	SP4r2	SP3	SP3
	Chipset	SoC	N/A	N/A
	Security Acceleration	10Gbps Encryption + 10Gbps Decryption	40Gbps Encryption + 40Gbps Decryption	40Gbps Encryption + 40Gbps Decryption
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
System Memory	Technology	DDR4 2666 MHz ECC/U/R DIMM	DDR4 3200MHz ECC REG DIMM	DDR4 3200MHz ECC REG DIMM
	Max. Capacity	128GB	512GB	1024GB
	Socket	4 x 288-pin DIMM	8 x 288-pin DIMM	16 x 288-pin DIMM
Networking	Ethernet Ports	8 x GbE RJ45 Intel® i350-AM4 2 x 10G SFP+	1 x GbE RJ45 Intel® i210	1 x GbE RJ45 Intel® i210
	Bypass	3 x Pairs of Gen3	N/A	N/A
	NIC Module Slot	1	2 (Default), 2(Optional)	8 Or 4 (By SKU)
LOM	I/O Interface	1 x RJ45	1 x RJ45	1 x RJ45
	OPMA Slot	Yes	Yes	Yes
I/O Interface	Reset Button	1	1	1
	LED	Power/Status/Storage	Power/Status/Storage	Power/Status/Storage
	Power Button	1 x ATX Power Switch	1 x ATX Power Switch	1 x ATX Power Switch
	Console	1 x RJ45	1 x RJ45	1 x RJ45
	USB	2 x USB 3.0	2 x USB 3.0	2 x USB 3.0
	LCD Module	1 x LCM, 4 x Keypads	N/A	N/A
	Display	From OPMA Slot for VGA (Optional)	1 x VGA (Optional)	1 x VGA (Optional)
	Power Input	AC Power Inlet on PSU	AC Power Inlet on PSU	AC Power Inlet on PSU
Storage	HDD/SSD Support	2 x 2.5" Swappable Bays	2 x 2.5" Swappable Bays	SKU A: 4 x 2.5" or 3.5" SKU B: 2 x 2.5" or 3.5"
	Onboard Storage	N/A	1 x 22110/2280 M.2 Slot	1 x M.2 (SATA/PCIe) 2280
Expansion	PCIe	N/A	1 x PCIe*8 FHHL	2x PCIe*8 FHHL or 1x PCIe*16 FHHL
	mini-PCIe / NVME	1 x 2242 M.2, 1 x Mini-PCIe, 1 x LTE (Optional)	N/A	N/A / Max. 1TB
Miscellaneous	Watchdog	Yes	Yes	Yes
	Internal RTC with Li Battery	Yes	Yes	Yes
	TPM	TPM 1.2/2.0	Yes (Optional)	Yes (Optional)
Cooling	Processor	Passive CPU Heatsink	Passive CPU Heatsink	Passive CPU Heatsink
	System	2 x Cooling Fans w/ Smart Fan	5 x Individual Hot-swappable Cooling Fans	4 x Individual Hot-swappable Cooling Fans
Environmental Parameters	Temperature	0~40°C Operating -20~70°C Non-Operating	0~40°C Operating -20~70°C Non-Operating	0~40°C Operating -20~70°C Non-Operating
	Humidity (RH)	5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating	5~90% Operating 5~95% Non-Operating
System Dimensions	(WxDxH)	438 x 431 x 44 mm	438 x 610 x 44 mm	438 x 600 x 88 mm
	Weight	8.6 kg	10.6 kg	24 kg
Package Dimensions	(WxDxH)	582 x 548 x 182 mm	739 x 582 x 215 mm	825 x 600 x 270 mm
	Weight	13 kg	15 kg	26 kg
Power	Type / Watts	300W Redundant PSUs	550W 1+1 ATX Redundant PSUs	850W 1+1 ATX Redundant PSUs
	Input	100~240VAC @50~60Hz, 5~3A	AC 100V~240V @47~63Hz	AC 100V~240V @47~63Hz
Approvals and Compliance		RoHS, CE, FCC, UL	RoHS, CE, FCC, UL	RoHS, CE, FCC, UL

OT Security

Rugged Security Appliance

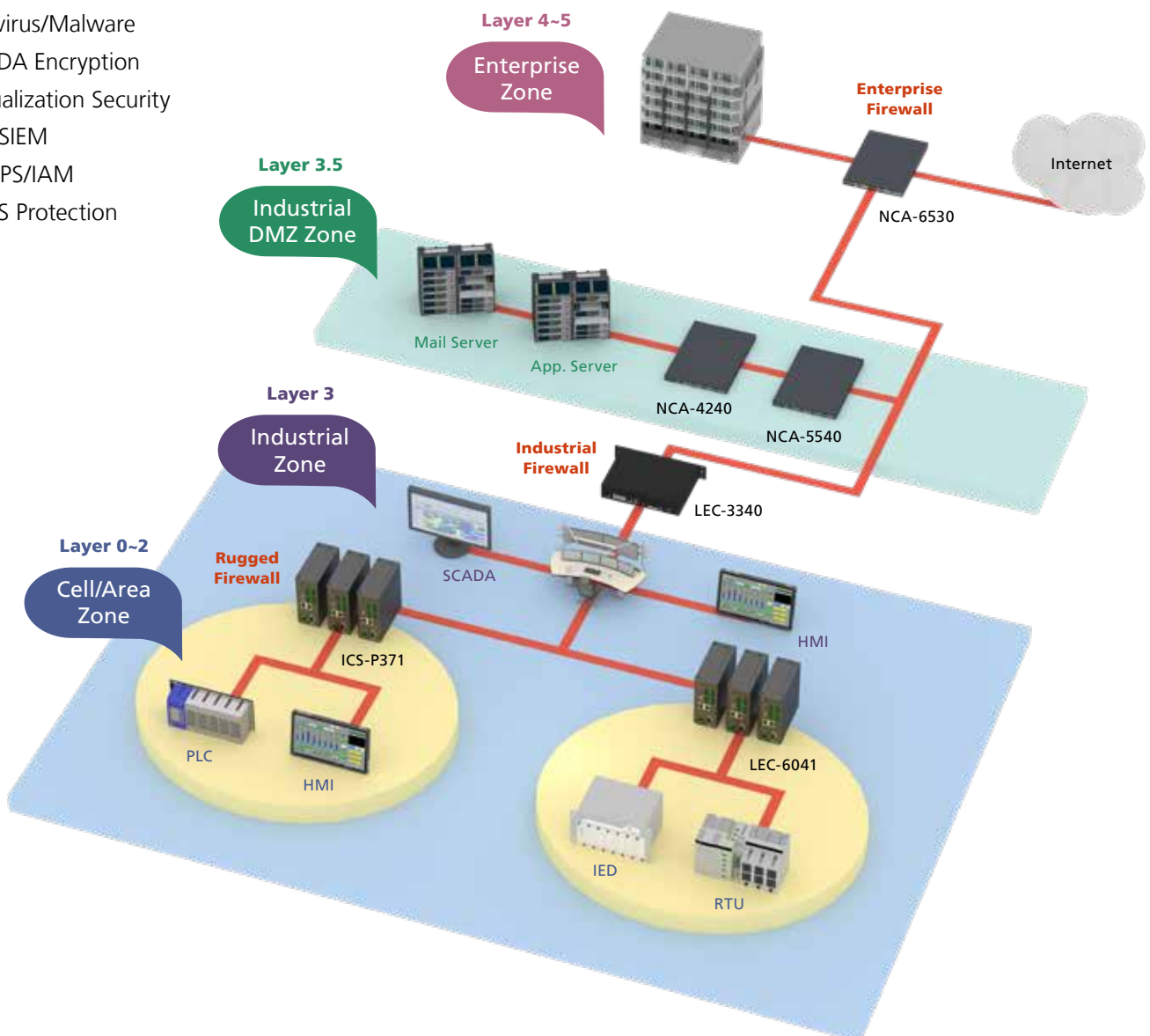
Lanner ICS / ISD / OT Security Solutions

To ensure robust protection against advanced cyber threats, it's crucial to establish multi-layer defenses for both IT and OT networks within critical infrastructures. In this setup, OT manages the Industrial Zone (Layer 0~3) comprising instrumentation buses, controller LANs, and SCADA systems, while IT oversees the Enterprise Zone (Layer 4~5) with web, email, and enterprise servers. An Industrial DMZ Zone (Layer 3~5) adds an extra layer of protection for externally interfaced services.

As a premier hardware solution provider in the realm of network security, Lanner offers an extensive and customizable range of hardware platforms. These platforms are meticulously designed to safeguard communication protocols within both IT and OT domains for critical infrastructures, spanning industries such as energy, power, oil, and gas.

IIoT Network Security Gateway

- Antivirus/Malware
- SCADA Encryption
- Virtualization Security
- DLP/SIEM
- IDS/IPS/IAM
- DDoS Protection



ICS / OT Security Appliances



OT Security Appliance



IEC-61850 OT Security Appliance



IEC-61850 OT Security Appliance

Model Name		LEC-6032	LEC-6041	LEC-3340
Processor System	CPU	Intel® Atom™ E3845	Intel® Atom™ x7-E3950 or x5-E3930	Intel® Xeon® E3-1505L V6 or Core i5-7442EQ CPU
	Frequency	1.91 Ghz	Atom x5-E3930: 1.3 GHz, Atom x7-E3950: 1.6 GHz	2.2 GHz or 2.9 GHz
	Core Number	4C	Atom x5-E3930: 2C, Atom x7-E3950: 4C	4C
	BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
	Chipset	SoC	SoC	Intel® CM238
Fanless		Yes	Yes	Yes
Memory	Technology	DDR3L 1333 MHz	DDR3L, 1866 MHz	DDR4 ECC
	Max. Capacity	8GB	8GB	Up to 64 GB
	Socket	1x 204-pin SODIMM	1x 204-pin SODIMM	2 x 260-pin SODIMM
Graphic	Controller	Intel® HD Graphics	Intel HD 505 Graphics	Intel HD Graphics P630
	Interface	Internal pin header	1 x HDMI	DP, DVI-D
Ethernet	Controller	Intel® i210	Intel® i210	Intel® i210
	Speed	10/100/1000Mbps	RJ45: 10/100/1000Mbps, SFP: 1 Gbps	Either 1000 Mbps or 10/100 Mbps
	Interface	6032B: 5 x GbE RJ-45, 2 pairs Bypass 6032C: 5 x GbE RJ-45, 1 pair Bypass, 2 x SFP GbE ports 6032D: 5 x GbE RJ-45, 1 pair Bypass 6032F: 3 x GbE RJ-45, 1 pair Bypass, 4 x SFP GbE ports	5 x GbE RJ45, 1 pair LAN Bypass 2 x GbE SFP ports	4 x 1000Base-T GbE RJ45 ports
	Magnetic Isolation Protection	1.5KV magnetic isolation protection	1.5KV magnetic isolation protection	1.5KV magnetic isolation protection
Storage	Type	-	m-SATA	m-SATA
	Installation	-	1 x optional mSATA socket	1 x mSATA socket
	Type	SATA	SATA (Optional)	SATA
	Installation	1x SATA connector, optional 2.5" drive bay	1 x SATA connector with 2.5" drive bay (optional)	2 x 2.5" Swappable HDD/SSD drive bay support RAID0,1
I/O	Serial Port	1x DB9 for RS-232 (6032D only)	2x RS-232, DB9 male	2 x DB9 Male (COM1/COM2) with isolation supports software selectable RS-232/422/485
	ESD Protection	15KV ESD Protection	15KV ESD protection	15KV ESD Protection
	Isolation Protection	2KV Digital Isolation	2KV Digital Isolation	2KV Digital Isolation
	Digital I/O	-	-	-
	USB 2.0	1x Type A	2x Type A	-
	USB 3.0	1x Type A	-	5 x type A
	Power On/Off/Reset Button	- / 1x Reset	- / 1x Reset	- / 1x Reset
	LED	Storage, RUN, PWR, LAN LEC-6032 C/F: SFP	PWR, Storage, Run(User defined), 5 x LAN, 2 x SFP	2x Power on for LED (Power1/Power2) in Green 1x Storage access LED for mSATA/HDD1/HDD2 in Green 4x double stack LED for Ethernet active in Yellow; Speed LED 100M in Green; Speed LED 1G: Yellow 2x Double Stack LED for COM1/COM2 TX in Yellow; RX Signal Access in Green 1x Failure LED(User Programmable)in multi-color Red/Green
Expansion Interface	PCIe/Mini-PCIe	-	1x mini-PCIe with 1 SIM card for 4G LTE module (USB & PCIe signal)	1x PCIe16, 3x PCIe4 slots
Watchdog Timer		Watchdog Timer 1~255 Level Time Interval System Reset, Software Programmable	Watchdog Timer 1~255 Level Time Interval System Reset, Software Programmable	Watchdog Timer 1~255 Level Time Interval System Reset, Software Programmable
Power	Power Supply Voltage	12-36Vdc	20-54 Vdc	2x 16.6Vdc or 100~240Vac
	Connector	6-pin Phoenix Contact Connector	6-Pin Terminal Block	3-Pin Terminal Block
	Power Consumption (Idle)	9 ~ 10W	13.19 W	16.3W
	Power Consumption (Full Load)	15 ~ 16W	27.42 W	28.7W
Environment	Operating Temperature	-40~70°C (-40~176°F)	-40~70°C (-40~176°F)	-40°C~70°C (-40~158°F)
	Storage Temperature	-40~85°C (-40~185°F)	-40~85°C (-40~185°F)	-40~85°C (-40~185°F)
	Relative Humidity	5%~95%, Non-condensing	5%~95%, Non-condensing	5%~95%, Non-condensing
Mechanical	Dimension (W x H x D)	78 x 146 x 127 mm	53.5 x 186 x160 mm	438 x 131.8 x 300.1 mm
	Construction	Aluminum	Aluminum + SGCC	Aluminum + Steel
	Weight	1 Kg	1.6 Kg	8.5 kg
	Mounting	DIN rail, Wallmount	DIN rail, Wallmount	Rackmount
Driver Support	Microsoft Windows	Windows 7, Windows 7 Embedded	Windows 10 PRO	Windows 10 Embedded
	Linux	Kernel 3.X	Kernel 4.X	Kernel 4.X, Ubuntu
Certification	EMC	CE,FCC Class A	CE,FCC Class A	CE,FCC Class A
Compliance		RoHS	IEC 61850-3, IEEE 1613	IEC 61850-3, IEEE 1613
Ordering Information		LEC-6032B/C/D/F	LEC-6041A/B	LEC-3340A/B/C/D

ICS / OT Security Appliances



IloT Security Appliance



IEC-61850-3
Security Appliance



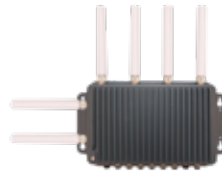
IEC-61850-3
Security Appliance

Model Name		ICS-I370 NEW	ICS-P371 NEW	ICS-P570 NEW
Processor System	CPU	Intel® Atom™ x7-E3950 / x5-E3940	Intel Atom X6211E/X6413E/X6425E	AMD Ryzen V1404I
	Frequency	1.60 GHz	1.3~2.0 GHz	Max: 3.6 GHz, Base: 2GHz
	Core Number	4 Cores	2~4 Cores	4 Cores
	BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
	Chipset	SoC	SoC	SoC
Fanless		Yes	Yes	Yes
Memory	Technology	DDR3L, non ECC	DDR4, non ECC & IB-ECC	DDR4, 2400 MHz
	Max. Capacity	Up to 8 GB	Up to 32 GB	Up to 32 GB
	Socket	1 x SODIMM	1x 260-pin SODIMM	2 x 260-pin SODIMM
Graphic	Controller	Intel HD Graphics 500	N/A	Vega 8 Graphics
	Interface	1 x DP port	1 x internal DP pin-header	1 x internal HDMI pin-header
Ethernet	Controller	LAN3 & LAN4 by using Intel i210-IS/IT/AT ; LAN1 & LAN2 by using Intel i210-IT /AT	Intel i226T/i210IS	Intel i210-IT / i210IS
	Speed	10/100/1000Mbps	RJ45: 100M/1G/2.5Gbps, SFP: 1 Gbps	RJ45: 100M/1G/2.5Gbps, SFP: 1 Gbps
	Interface	8x, 6x or 4x GbE RJ45 ports SKU C,D,F plus 2x GbE SFP	6 x RJ45, 2 x SFP, optional IPMI Ports (By SKU)	6 x or 4 x GbE RJ45 + 2x SFP
	Bypass	1 or 2 pairs	1 pair	1 pair
Storage	Type	eMMC	SATA	SATA
	Installation	Onboard 64GB	1 x 2.5" drive bay, 1 x M.2 M Key 2242	1 x M.2 M Key 2242
	Type	mSATA/SATA	SD	SD
	Installation	1x 2.5" storage drive (design reserved)	1 x Micro SD reader	1 x Micro SD reader
I/O	Serial/Console Port	1 x RS-232, DB9 male	1 x RS-232, DB9 male	1 x RS-232, DB9 male
	Digital I/O	2 x DIO	2 x Isolated DIO	2 x Isolated DIO
	USB	2x USB 3.0 type A	1x USB 3.0, 1x USB 2.0 type A	1x USB 3.0
	Power On/Off/Reset Button	Default H/W reset, selectable by jumper to SW reset	Reset button	Reset button
	LED	HDD, Power, LTE Status, LTE Signal, DI/DO, LAN TX/RX	System Status, Ethernet Status & Programmable LEDs	1x POWER/STATUS/HDD LED (3 LEDs) 2x LEDs per eth ports (total 12 LEDs) 1x LED per DI or DO (total 4 LEDs)
Expansion Interface	PCIe/Mini-PCIe/M.2	M.2 B-key for LTE/5G sub6 with dual SIM M.2 E-Key for WiFi	1x M.2 B-Key 3042/3050/3052 for LTE/5G Sub6 module, with dual Nano-SIM; 1x M.2 E-Key for Wi-Fi module (By SKU)	1x M.2 B-Key 3042 for LTE module, with dual Nano-SIM
Watchdog Timer		Watchdog timer 256 level time interval system reset, software programmable	Watchdog timer 256 level time interval system reset, software programmable	Watchdog timer 256 level time interval system reset, software programmable
Power	Power Supply Voltage	Dual DC input from 12~36V	Dual +12~48Vdc	Dual +12~48Vdc
	Connector	1x 6-pin terminal block for dual DC input from 12~36V	Phoenix contact 6-pin connector with lock	Phoenix contact 6-pin connector with lock
Environment	Operating Temperature	-40 ~ 70°C with LTE	-40°C~70°C (-40~158°F)	-40°C~70°C (-40~158°F)
	Storage Temperature	-40~85°C (-40~185°F)	-40~85°C (-40~185°F)	-40~85°C (-40~185°F)
	Relative Humidity	Operating Relative Humidity: 10~90% Non-Operating Humidity: 5~95%	5%~95%, Non-condensing	5%~95%, Non-condensing
Mechanical	Dimension (W x H x D)	160 x 156.5 x 81 mm	87 x 196 x 180 mm	65 x 201 x 196 mm
	Construction	Aluminum + SGCC	Aluminum + SGCC	Aluminum + SGCC
	Weight	2 kg	2.2 kg	2.5 kg
	Mounting	DIN rail mount, optional wall mount	DIN rail mount, optional wall mount	DIN rail mount, optional wall mount
Driver Support	Microsoft Windows	Win 10 IoT	Windows 10/11 IoT	N/A
	Linux	Linux Kernel 3.x or later	Linux Kernel 2.6X or later	Linux Kernel 2.6X or later
Certification	EMC	CE/FCC Class A	FCC/CE Class A, UL (IEC-62368), C1D2	FCC/CE Class A, UL (IEC-62368)
Compliance		UL	IEC 61850-3, IEEE 1613	IEC 61850-3, IEEE 1613
Ordering Information		ICS-I370A/B/C/D/E/F	ICS-P371A/B/C/D/E/F	ICS-P570A/B

ICS / OT Security Appliances



Rugged Wireless Gateway



IP67 Wireless Gateway



Rail Cyber Security Appliance

Model Name		NCR-1510	ISD-O370	ICS-R372
Processor System	CPU	Intel® Denverton C3308/C3508/C3708	Intel® Denverton C3708/C3808	Intel Apollo Lake X7-E3950
	Frequency	1.6 ~ 1.7 GHz	1.7~2.0 GHz	1.6 GHz
	Core Number	2~8 Cores	8~12 Cores	4 Cores
	BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
	Chipset	SoC	SoC	SoC
Fanless		Yes	Yes	Yes
Memory	Technology	DDR4 2400MHz ECC/Non-ECC	DDR4 up to 2133 MT/s ECC SODIMM	LPDDR4 up to 2400 MHz
	Max. Capacity	SKU A/D: 32GB, SKU B/C/E/F:64GB	64 GB, Default ECC RAM 16GB x1	Up to 8GB (Factory default: 8GB pre-installed)
	Socket	SKU A/D:1x 260-pin SODIMM, SKU B/C/E/F:2x 260-pin SODIMM	2x 260-pin SODIMM	1 x 260-pin SODIMM
Graphic	Controller	N/A	N/A	Intel integrated HD Graphics 505
	Interface	N/A	N/A	2 x HDMI
Ethernet	Controller	4 x GbE RJ45 Intel® SoC Integrated MAC 2 x SFP Intel® i210 (By SKU) or 2 x GbE RJ45 Intel i210 (By SKU)	4x or 6x Ethernet Ports, support SR-IOV, GbE PoE+ & 2.5GbE LANs (By SKU), by M12 X-coded 8-pin Female Connector with Isolation 1.5KVDC	Intel® i210-IT
	Speed	10/100/1000Mbps	10/100/1000Mbps	10/100/1000Mbps
	Interface	6x or 4x RJ45 2 x GbE SFP (By SKU)	4x or 6x Ethernet Ports, by M12 X-coded 8-pin Female Connector with Isolation 1.5KVDC	Up to 6 x Ethernet ports with M12 X-coded connectors
	Bypass	1 pair Gen3	N/A	N/A
Storage	Type	SATA	eMMC	m-SATA
	Installation	1 x 2.5" Bay (Optional)	On-board eMMC 128GB TLC	1 x mSATA socket
	Type	N/A	M.2	SATA II
	Installation	N/A	1x M.2 2242 B key	Internal 2.5" drive bay x 1
I/O	Serial Port	N/A	1 x RS232/485 by M12 X-coded 8pin Female connector with isolation 1.5KVDC	N/A
	ESD Protection	N/A	1.5KVDC	-
	Isolation Protection	N/A	Yes	-
	Digital I/O	N/A	N/A	-
	USB 2.0	1 x Mini USB for console	1 x USB 2.0 by M12 A-coded 8pin Male connector	4 x type A
	USB 3.0	2 x USB 3.0 (By SKU)	N/A	-
	Power On/Off/Reset Button	1x DC Jack, 1x Reset Button	N/A	
	LED	Power/Status/Storage	N/A	TBD
Expansion Interface	PCIe/Mini-PCIe	SKU A/B/D/E: 1x M.2 B key 3042 for LTE, 2242 SSD with Nano-SIM; 1x Mini-PCIe for Wi-Fi, LTE with Nano-SIM SKU C/F: 1x M.2 B key 3042 for LTE, 2242 SSD with Nano-SIM; 2x Mini-PCIe for Wi-Fi, LTE with Nano-SIM	1x M.2 304(5)2 B Key socket for 5G 1x M.2 2230 E Key socket for WiFi 6 Mini-SIM & 1x eSIM (reserved)	2x M.2 3042 B Key
Watchdog Timer		Yes	Yes	Yes
Power	Power Supply Voltage	9~54 VDC	DC-IN, Up to 130W, Rated 24-36Vdc (range 9-50Vdc)	SKU A: Input Rated: 24~36Vdc, SKU B: Input Rated: 72~110Vdc
	Connector	2-pin terminal block	M12 K-coded 5pin Male connector	M12 K-coded
Environment	Operating Temperature	-40~70°C Operating (SKU A/B) -40~60°C Operating (SKU C)	-40~70°C Operating (SKU D & F) -40~60°C Operating (SKU C & E)	-40°C~70°C (-40~158°F)
	Storage Temperature	-40~85°C (-40~185°F)	-40~85°C Ambient storage	-40~85°C (-40~185°F)
	Relative Humidity	5~90% Operating 5~95%, Non-Operating	5~90% Operating 5~95% Non-Operating	5%~95%, Non-condensing
Mechanical	Dimension (W x H x D)	310 x 44 x 240 mm	370 x 210 x 83mm	272.4 x 88.3 x 228 mm
	Construction	Aluminum + Steel	Aluminum + Steel	Aluminum + Steel
	Weight	3 kg	4.6 kg	7 kg
	Mounting	Wallmount	Wallmount	Wallmount
Driver Support	Microsoft Windows	Windows: Win10 IOT	N/A	Windows: Win10 IOT
	Linux	Linux: Redhat Enterprise 5, Fedora 14. Linux Kernel 2.6.18 or later	Linux Kernel	Linux: Redhat Enterprise 5, Fedora 14. Linux Kernel 2.6.18 or later
Certification	EMC	CE/FCC Class A	CE/FCC Class A	E13, CE Class A, FCC Class A, RoHS
Compliance		RoHS	UL 62368-1, CB, IP67, MIL-STD-810G	MIL-STD-810G, EN50155, EN50121-3-2, EN50121-4, EN50125, EN 45545
Ordering Information		NCR-1510 A/B/C/D/E/F	ISD-O370 C/D/E/F/G/H/I/J/K/L	ICS-R372 A/B

Advanced Network Platforms



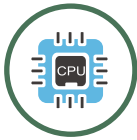
Feature		Description	FX-3420	ECA-5540	HTCA-6200
Form Factor			2U 19" Rackmount	1U Rackmount	2U Rackmount
Platform	Processor Options		Intel® Xeon® Scalable Processor (Skylake-SP/Cascade Lake-SP)	Intel® Xeon® Scalable Processor (Sapphire Rapids-SP)	Up to 4x Intel® Xeon® Scalable Processor (Ice Lake-SP/Sapphire Rapids-SP)
	Chipset		Intel C612	Intel C741	Intel C621/C627/C741
OS Support			Linux Kernel 2.6 or above	Linux Kernel 2.6 or above	Linux Kernel 2.6 or above
System Memory	Technology		DDR4 2933 MHz REG DIMM	DDR5 4400 MHz RDIMM	DDR5 4800 MHz REG DIMM
	Max. Capacity		768GB	1024 GB	1024GB per blade
	Socket		24x 288-pin DIMM	16 x 288-pin DIMM	16x 288pin DIMM per blade
Storage	SATA/M2		Front: 12x 3.5" HDD SATA 6G /SAS 12G or 12x 2.5" NVME Back: 2 x 2.5" SATA 6G	2 x 2.5" HDD/SSD 2 x M.2 NVMe (PCIe) 2280 M key	2 x 2.5" Swappable HDD drive bays
Networking	Ethernet Ports		4 x 10G SFP+ 6 x GbE RJ45	1x 1GbE RJ45 for MGMT	Blade 1~2: Switch Fabric Blade or Ethernet I/O Blade
	Bypass		N/A	N/A	N/A
	Controllers		i350 / XL710	N/A	Depends on blade specification (HLM series)
	NIC Module Slot / Blade		N/A	1x OCP NIC	N/A
	IPMI		IPMI Chip Onboard	1 x onboard IPMI port	1 x onboard IPMI port
	Management Port		N/A	N/A	1 x Management port
I/O Interface	Reset Button		Yes	Yes	Yes
	Console		1 x DB9	1 x RJ-45	1 x RJ-45
	USB		2 x USB 2.0, 2 x USB 3.0	2 x USB 3.0	1 x USB 2.0
Expansion	PCIe		2x PCI-E*16 FH/FL + 1x PCI-E*8 HH/HL M.2 PCI-e SSD	1x FHFL (PCIex16, double width, 350W) 2xLP (PCIex8) or 1xFHHL (PCIex8)	N/A
	mini-PCIe		Optional	N/A	N/A
Cooling	Processor		Passive CPU Heatsink	Passive CPU Heatsink	CPU heatsink with fan duct
	System		6x individual hot-swappable cooling fans with smart fan	5x swappable cooling fans with smart fan	5 x hot-swappable cooling fans per blade
Environmental Parameters	Temperature		0~40°C / -20~70°C	-40~65°C Operating -40~70°C Non-Operating	0 ~ 40°C Operating -20~70°C Non-Operating
	Humidity (RH)		5~90% non condensing / 5~95%, non condensing	5 ~ 90% Operating 5 ~ 95% Non-Operating	5 ~ 90% Operating 5 ~ 95% Non-Operating
Miscellaneous	LCD Module		N/A	N/A	2 x 20 characters
	Watchdog		Yes	Yes	Yes
	Internal RTC with Li Battery		Yes	Yes	Yes
Dimensions	Dimensions (WxHxD)		445 x 88 x 785 mm	438x580x44 mm	438 x 88 x 685 mm
	Weight		TBD	TBD	26 kg
Power	Watts / Type		1200W 1+1 Redundant PSU	1600W AC PSU	AC 2000 watt N+1 Redundant per blade DC 1600 watt N+1 Redundant per blade PM bus support
	Input		AC 100V~240V @47~63Hz	AC 110 -240V	AC 85 ~ 264 V DC -36V ~ -72V
Approvals & Compliance			CE/FCC Class A	TBD	CE Class A, FCC Class A, RoHS, NEBS design compliance



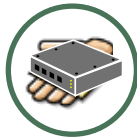
HTCA-E400 NEW	HTCA-6400 NEW	HTCA-6600
4U Rackmount	4U Rackmount	6U Rackmount
Up to 5x Intel® Xeon® Scalable Processor (Ice Lake-SP)	Up to 4x Intel® Xeon® Scalable Processor (Ice Lake-SP/Sapphire Rapids-SP)	Up to 4x Intel® Xeon® Scalable Processor (Ice Lake-SP/Sapphire Rapids-SP)
Intel C621/C627	Intel C621/C627/C741	Intel C621/C627/C741
Linux Kernel 2.6 or above	Linux Kernel 2.6 or above	Linux Kernel 2.6 or above
DDR4 DIMMs	DDR5 4800 MHz REG DIMM	DDR5 4800 MHz REG DIMM
512GB per compute sled	1024GB per blade	1024GB per blade
8x 288pin DIMM per compute sled	16x 288pin DIMM per blade	16x 288pin DIMM per blade
2 x 2.5" Swappable HDD drive bays	8 x 2.5" Swappable HDD drive bays	6 x 3.5" Swappable HDD drive bays
2x Switch Fabric Sleds	Blade 1~2: Switch Fabric Blade Blade 3~4: Ethernet I/O Blade	Blade 1~2: Switch Fabric Blade Blade 3~6: Ethernet I/O Blade
N/A	N/A	N/A
Depends on blade specification (HLM series)	Depends on blade specification (HLM series)	Depends on blade specification (HLM series)
1x OCP NIC per compute sled	N/A	N/A
1 x onboard IPMI port	1 x onboard IPMI ports	1 x onboard IPMI ports
1 x Management port	1 x Management port	1 x Management port
Yes	Yes	Yes
1 x RJ-45	1 x RJ-45	1 x RJ-45
N/A	1 x USB 2.0	1 x USB 2.0
1x PCIe slot per sled 2U Compute sled: FH3/4L double or single width PCIe Card 1U Compute sled: single width PCIe Card	N/A	N/A
N/A	N/A	N/A
CPU heatsink with fan duct	CPU heatsink with fan duct	CPU heatsink with fan duct
4 x hot-swappable cooling fans per 1U Compute Sled 2 x hot-swappable cooling fans per 2U Compute Sled	5 x hot-swappable cooling fans per blade	5 x hot-swappable cooling fans per blade
0 ~ 40°C Operating -20~70°C Non-Operating	0 ~ 40°C Operating -20~70°C Non-Operating	0 ~ 40°C Operating -20~70°C Non-Operating
5 ~ 90% Operating 5 ~ 95% Non-Operating	5 ~ 90% Operating 5 ~ 95% Non-Operating	5 ~ 90% Operating 5 ~ 95% Non-Operating
N/A	2 x 20 characters	2 x 20 characters
Yes	Yes	Yes
Yes	Yes	Yes
438 x 88 x 685 mm	438 x 177.3 x 685 mm	438 x 265.9 x 685 mm
27.5 kg	40 kg	55 kg
AC 3000W 1+1 Redundant PSU DC 1600W 220V 1+1 Redundant PSU	AC 2000 watt N+1 Redundant per blade DC 1600 watt N+1 Redundant per blade PM bus support	AC 1200 watt N+1 Redundant per blade DC 1010 watt N+1 Redundant per blade PM bus support
xDC -36V ~ -72V	AC 85 ~ 264 V DC -36V ~ -72V	AC 85 ~ 264 V DC -36V ~ -72V
CE Class A, FCC Class A	CE Class A, FCC Class A, RoHS, NEBS design compliance	CE Class A, FCC Class A, RoHS, NEBS design compliance

Rugged Edge AI Appliances

Lanner provides a full range of rugged edge AI appliances designed for mission-critical applications, such as video analytics, machine vision, and traffic monitoring. With a unique ruggedized design required for different industries, Lanner's deep learning inference AI platforms feature AI-optimized processing, wide operating temperature range, LTE/5G connectivity, and a rich I/O interface.



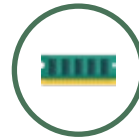
High-Performance Processor



Compact Design



Rich IO Connection



M.2 / PCIe Expansion



Wide Operating Temperature



AI Acceleration



Fanless Design



5G/LTE WiFi Ready

Rugged Edge AI Computer



11th Gen. Intel Core



11th Gen. Intel Core

Model Name	IloT-i530 NEW	IloT-i531 NEW
Processor System	11th Gen Intel® Core i7-1185GRE (Tiger Lake)	11th Gen Intel® Core i7-1185GRE (Tiger Lake)
AI Acceleration Support	N/A	N/A
Fanless	YES	YES
Memory	64GB	64GB
Storage	1x mSATA, 1x SATA	1x mSATA, 1x SATA
Ethernet	2x 2.5G RJ45, 6x RJ45 for PoE+	6x 2.5Gbps RJ45 (4x RJ45 For PoE+)
I/O	2x COM, 8xDI, 4xDO, 4x USB 3.0	4x COM, 4xDIO, 4x USB 3.0
Expansion	M.2: 1x B-Key for 5G, 1x E Key for WiFi-6 1x M-Key For PCIe Gen4	1x PCIe 3.0 x1 FHHL 1x B-Key w/ 2x Nano-SIM For 5G 1x E-Key 2230 For WiFi-6
Power	+24VDC	+24VDC
Mechanical	270 x 76 x 180 mm	270 x 76 x 220 mm
Environment	-40°C~55°C	-40°C~75°C
Driver Support	Windows 10 IoT, Linux	Windows 10 IoT Linux Dabian 11 Pre-install
Certification	CE/FCC, Class A	CE/FCC, Class A / UL

NVIDIA Jetson Edge AI Computer



NVIDIA Jetson NX



NVIDIA Jetson Orin



Model Name	EAI-i130	EAI-i131
Processor System	NVIDIA® Jetson Xavier NX/Jetson Nano	NVIDIA® Jetson Orin NX/Nano
AI Acceleration Support	NVIDIA Volta Architecture	NVIDIA Ampere Architecture
Fanless	YES	YES
Memory	16GB	16GB
Storage	1x M.2 2280 M Key, 16GB eMMC 5.1, SD Card	1x M.2 2280 M Key (PCIe x4)
Ethernet	2x RJ45 for PoE+	2x RJ45 for PoE+
I/O	2x COM, Audio, 2x USB 2.0 1x HDMI, 4x DIO	2x COM, Audio, 2x USB 2.0 1x HDMI, 4x DIO
Expansion	M.2: 1x B-Key for 5G, 1x EKey for WiFi-6	M.2: 1x B-Key for 5G, 1x EKey for WiFi-6
Power	+24VDC	+24VDC
Mechanical	201 x 65 x 196 mm	201 x 65 x 196 mm
Environment	-20C~75°C	-20C~75°C
Driver Support	Linux Open Source On NVIDIA SDK	Linux Open Source On NVIDIA SDK
Certification	CE/FCC Class A	CE/FCC Class A

Rugged Edge AI Computer



Industrial Edge AI



Vehicle Edge AI



Railway Edge AI



Model Name	EAI-i730	EAI-V330	EAI-R530
Processor System	12th Gen Intel® Core i9/i7 (Alder Lake S)	Intel® Atom® x6000 Series	13th Gen Intel® Intel Core i
AI Acceleration Support	2x PCIe X16 Full-length, 2x PCIe 4X Half-size	M.2 Hailo-8 AI Accelerator	1x Hailo-8™ AI Accelerator onboard
Fanless	YES	YES	YES
Memory	128GB	16GB	64GB
Storage	4x 2.5" SSD	eMMC 128GB (up to 128GB), SATA x1 (removable 2.5" storage bay)	2x SATA3 for 1x Removable Storage Caddy
Ethernet	2x 2.5GbE RJ45	2x 2.5GbE RJ45, 4x GbE PoE	4x 2.5GbE RJ45, 2x GbE PoE
I/O	2x COM, 8x USB 3.2, 4x DIO	4x USB, 2x COM, 1x CAN Bus 4xDI, 2xDO, HDMI, DVI	3x USB, 2x HDMI,
Expansion	1x M.2(NVMe) 2280 M-Key 2x SATA M.2 M-KEY 2242 2x PCIe*16, 2x PCIe*4	1x M.2 304(5)2 B Key socket 1x M.2 2230 E key socket 1x PGN Caddy for LTE/5G	2x M.2 2242/2280 M key (PCIe x4) socket, 1x M.2 2230 E key socket for WiFi, 4x PGN Caddy for LTE/5G
Power	100~230 Vac	DC 12/24/48V	DC 24-110V
Mechanical	374 x 250 x 419 mm	TBD	TBD
Environment	-25°C~65°C	-40°C~70°C	-40°C~70°C
Driver Support	Linux Kernel 5.x, Ubuntu Win 10	Linux Debian 10 pre-installed Win 10/11 IoT	Linux Debian 10 pre-installed Win 11 IoT
Certification	CE/FCC Class A, UKCA, UL, CB, RoHS	CE/FCC Class A, E13, MIL-STD-810G	CE/FCC Class A, E13, MIL-STD-810G, EN50155, EN45545-2

Edge AI Starter Kit



NVIDIA A2



Falcon H8



Intel Movidius

Model Name	LEC-2290E	LEC-2290H NEW	LEC-2290 B NEW
Processor System	Intel® Core™ i7-9700TE (Codenamed Coffee Lake S)	Intel® Core™ i7-9700TE (Codenamed Coffee Lake S)	Intel® Core™ i7-8700/i7-9700TE (Codenamed Coffee Lake S)
AI Acceleration Support	NVIDIA A2	Falcon-H8	Intel® Movidius™ Myriad™ X
Fanless	N/A	N/A	N/A
Memory	32GB	32GB	32GB
Storage	2x Swappable SATA III Drive	2x Swappable SATA III Drive	2x Swappable SATA III Drive
Ethernet	2x RJ45, 4x PoE	2x RJ45, 4x PoE	2x RJ45, 4x PoE
I/O	6x COM, 8x DIO, 4x USB 3.0	6x COM, 8x DIO, 4x USB 3.0	6x COM, 8x DIO, 4x USB 3.0
Expansion	1x PCIe*16, 1x Mini-PCIe, 1x B Key M.2	1x PCIe*16, 1x Mini-PCIe, 1x B Key M.2	1x PCIe*16, 1x Mini-PCIe, 1x B Key M.2
Power	9~30 VDC	9~30 VDC	9~30 VDC
Mechanical	275 x 115 x 225 mm	275 x 115 x 225 mm	275 x 115 x 225 mm
Environment	0°C~40°C	-20°C~45°C	0°C~40°C
Driver Support	Windows 10 IoT, Linux	Windows 10 IoT, Linux	Windows 10 IoT, Linux
Certification	CE/FCC, Class A	CE/FCC, Class A	CE/FCC, Class A

Edge AI Starter Kit



Hailo-8 AI Accelerator



Hailo-8 AI Accelerator

Model Name	IIoT-I530H NEW	LEC-7242H
Processor System	11th Gen Intel® Core i7-1185GRE (Tiger Lake)	Intel Celeron N3350 (Apollo Lake)
AI Acceleration Support	M.2 Hailo-8 AI Accelerator	M.2 Hailo-8 AI Accelerator
Fanless	YES	YES
Memory	64GB	8GB
Storage	1x mSATA, 1x SATA, 1x M.2	Onboard 64GB eMMC 1x SATA (Design Reserved)
Ethernet	2x 2.5G RJ45, 6x RJ45 for PoE+	2x RJ45
I/O	2x COM, 8xDI, 4xDO, 4x USB 3.0	2x USB 3.0, 1x COM, 1x DP, 1x HDMI
Expansion	M.2: 1x B-Key for 5G, 1x E Key for WiFi-6 1x M-Key For PCIe Gen4	1x M.2 B+M Key, 1x Mini PCIe
Power	+24VDC	+12VDC
Mechanical	270 x 76 x 180 mm	168 x 40 x 145 mm
Environment	-40°C~55°C	-20C~70°C
Driver Support	Windows 10 IoT, Linux	Windows 10 IoT, Linux
Certification	CE/FCC Class A	CE/FCC, Class A, UL

1U Rackmount Edge AI Server



Intel Skylake D



Intel Skylake D



Intel Sapphire Rapids
SP/EE

Model Name	ECA-4025	ECA-4027 NEW	ECA-5540 NEW
Processor System	Intel Xeon® D-2100 Processor (Skylake-D)	Intel Xeon® D-2100 Processor (Skylake-D)	4th Gen Intel® Xeon® Scalable Processor (Sapphire Rapids-SP/EE)
AI Acceleration Support	Accelerator cards with PCIe16 HHHL, M.2 & mPCIe FF	Accelerator cards with PCIe16 HHHL, M.2 & mPCIe FF	Accelerator cards with PCIe16 HHHL, M.2 & mPCIe FF
Fanless	N/A	N/A	N/A
Memory	64GB	64GB	1024GB
Storage	2x 2.5" SATA, 2x M.2 NVMe	2x 2.5" SATA, 2x M.2 NVMe	2x 2.5" HDD/SSD 2x M.2 NVMe (PCIe) 2280 M key
Ethernet	1x RJ45 and 8 x 10G SFP+	8 x 10G SFP+, 2x40G QSFP+	1x 1GbE RJ45 for MGMT
I/O	1x USB 3.0	1x USB 3.0	2x USB 3.0
Expansion	1x PCI-E*16	1x PCI-E*16	1x FHFL (PCIex16, double width, 350W) 2x LP (PCIex8) or 1x FHHL (PCIex8), 1x OCP
Power	40~57 VDC	40~57 VDC	110 ~240V
Mechanical	438 x 300 x 44 mm	438 x 371 x 44 mm	438x580x44 mm
Environment	-40~65°C	-20°C~45°C	SKU A: 0-40°C SKU B: -5~50°C
Driver Support	Linux	Linux	Linux
Certification	CE/FCC, Class A	CE/FCC, Class A	CE/FCC, Class A

2U Rackmount Edge AI Server



Intel Cascade Lake SP



Intel Ice Lake SP

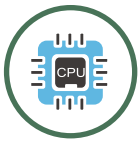


Intel Sapphire Rapids SP

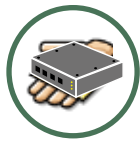
Model Name	FX-3420	NCA-6520 NEW	NCA-6530 NEW
Processor System	Intel® Xeon® Processor Scalable Family (Cascade Lake-SP)	3rd Gen Intel® Xeon® Scalable Processor (Ice Lake-SP)	4th Gen Intel® Xeon® Scalable Processor (Sapphire Rapids-SP)
AI Acceleration Support	Accelerator cards with PCIe16 HHHL, M.2 & mPCIe FF	Accelerator cards with PCIe16 HHHL, M.2 & mPCIe FF	Accelerator cards with PCIe16 HHHL, M.2 & mPCIe FF
Fanless	N/A	N/A	N/A
Memory	768GB	1536GB	1536GB
Storage	SATA: 12x 3.5" HDD, 2x 2.5", 1x M.2-22110	2x 3.5" or 2.5" Internal Bays On-board: 3x M.2	SKU A & C: 2x 2.5" Swappable SKU B & D: 12x 2.5" Swappable On-board: 3x M.2
Ethernet	4x 10G SFP+, 6 x GbE RJ45	2x GbE RJ45	2 x GbE RJ45
I/O	2x USB 2.0, 2 x USB 3.0	2x USB 3.0	2 x USB 3.0
Expansion	2x PCI-E*16, 1x PCI-E*8	2x PCIe x16 FH/FL or 2x PCIe x16 FH/HL	2x PCIe x16 FH/FL or 2x PCIe x16 FH/HL
Power	100V~240 V	100~240V	100~240V
Mechanical	445 x 760 x 88 mm	588 x 997 x 250 mm	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	CE/FCC, Class A	CE/FCC, Class A	CE/FCC, Class A

Industrial Edge Computers

Lanner's industrial computing appliances are designed for edge gateway and smart manufacturing applications, offering stability, longevity, high availability and a perfect balance between size, cost, performance and power consumption.



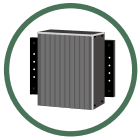
High-Performance CPU



Compact Design



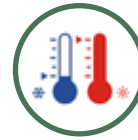
MIO Expansion Layer



Mounting Options



Easy-to-open Chassis



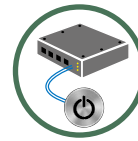
Wide Temperature Range



Fanless Design



5G/LTE/Wifi6 Ready



Easy Access to Power Switch



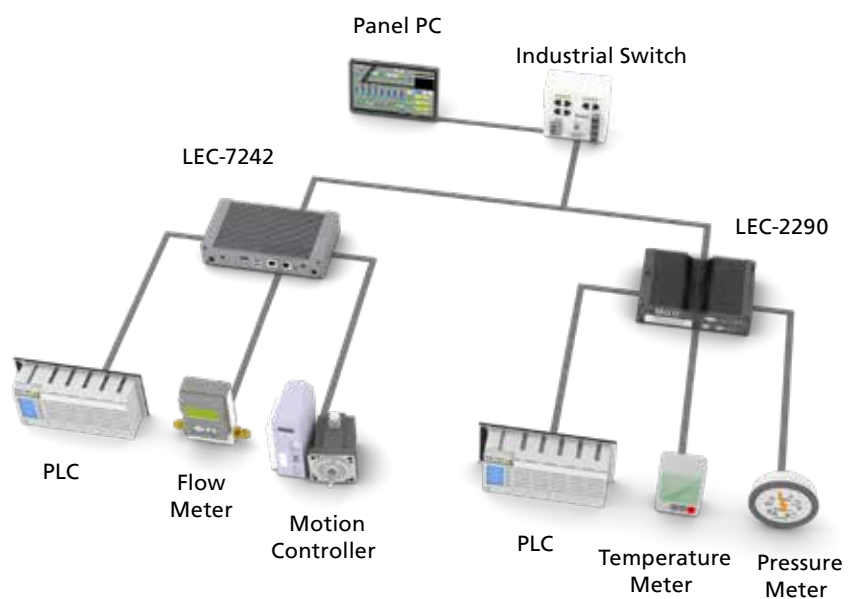
Factory Automation

LEC-7242

- Intel® Celeron® N3350 / Atom® X5-E3940 CPU
- 2x LAN, 1x COM
- 2x USB 3.0, 1x Display Port, 1x HDMI
- 1x M.2 w/ Dual SIM
- TPM Support
- 20°C~70°C Operating Temperatures

LEC-2290

- Intel® Core™ i7-8700T/i7-8700
- 2x DDR4 2133/2400 SO-DIMM, Max. 32GB
- 2x RJ45 GbE LAN, 4x PoE,
- 4x USB3.0, 6x COM, 8x DI & 8x DO
- 2x Removable HDD/SSD External Slot
- 1x PCIe Express, 1x Mini-PCle , 1x M.2



Industrial Edge Computers



Intel Bay Trail



Intel Bay Trail



Intel Apollo Lake

Model Name	LEC-7230/7230M/7230L	LEC-7233	LEC-7242
Processor System	Intel® Celeron® J1900/N2930 or Intel® Atom™ E3845/E3825	Intel® Celeron® N2807	Intel® Celeron® N3350/J3455 or Intel® Atom™ X5-E3940
Memory	8GB/4GB	8GB	8GB
Graphics	1x VGA, 1x HDMI	1x HDMI	1x HDMI, 1x Display Port
Storage	1x 2.5" HDD/SSD Drive Bay 1x CF Type I/II Socket	1x mSATA 1x SATA Connector (Reserved)	1x SATA 2.5" Drive Bay or 256GB SSD
Ethernet	2x RJ45	3x RJ45	2x RJ45
I/O	2x COM, 2x DIO, 2x USB 2.0, 1x USB 3.0	2x COM, 4x DIO, 2x USB 2.0, 1x USB 3.0	1x COM, 2x USB 3.0
Expansion	1x Full-sized Socket with SIM Card Reader	1x Full-sized socket with SIM Card Reader 1x Half-sized Socket	1x M.2 3042 Socket for LTE or WiFi 1x Mini PCIe Socket for LTE
Power Supply	12VDC	12VDC	12VDC
Dimensions (W x H x D)	LEC-7230: 198 x 42 x 144.8 mm LEC-7230L: 195.6 x 41 x 146.8 mm LEC-7230M: 198 x 42 x 145 mm	164.5 x 30 x 143 mm	168 x 40 x 145 mm
Weight	LEC-7230: 1.07 kg LEC-7230L: 0.9 kg LEC-7230M: 1.2 kg	0.9 kg	1 kg
Operating Temperature	LEC-7230: 0°C~55°C, LEC-7230L: 0°C~40°C, LEC-7230M: 0°C~60°C	0°C~50°C	0°C~50°C / -20°C~70°C
Driver Support	WES 7 E/Win 7 Pro FES WE 8.1 Industry Pro, Linux	WES 7 E/Win 7 Pro FES WE 8.1 Industry Pro, Win 10 IoT, Linux	Win 10 IoT 2019, Linux
Certification	CE/FCC Class A, UL	CE, FCC Class A	CE/FCC Class A, UL

Industrial Edge Computers



Intel Apollo Lake



Intel Tiger Lake



Intel Tiger Lake

Model Name	IIoT-I300 NEW	IIoT-I530 NEW	IIoT-I531 NEW
Processor System	Intel® Celeron® N3350/J3455	11th Gen Intel® Core™ i Up to i7-1185GRE	11th Gen Intel® Core™ i Up to i7-1185GRE
Memory	8GB	64GB	64GB
Graphics	2x Display Ports	2x HDMI	2x HDMI
Storage	1x SATA, 1x mSATA	1x 2.5" HDD/SSD Drive Bay 1x CF Type I/II Socket	1x mSATA, 1x SATA
Ethernet	3x or 2x RJ45	2x 2.5Gbps RJ45, 6x GbE RJ45 For PoE+	2x 2.5Gbps RJ45, 4x GbE RJ45 For PoE+
I/O	2x COM, 4x DIO, 2x USB 2.0, 2x USB 3.0	2x COM, 8x Isolated DI, 4x Isolated DO 4x USB 3.0	4x COM, 4x DIO, 4x USB 3.0
Expansion	1x M.2 3042/3052 B-Key For LTE 1x M.2 2230 E-Key For WiFi	1x 3042/3052 B-Key For 5G 1x 2230 E-Key For WiFi-6 1x 2280 M-Key For PCIe Gen4 x4	1x PCIe 3.0 x1 FHHL 1x 3042/3050/3052 B-Key For 5G 1x 2230 E-Key For WiFi-6
Power Supply	24VDC	24VDC	24VDC
Dimensions (W x H x D)	198 x 45.8 x 142 mm	270 x 76 x 180 mm	270 x 76 x 220 mm
Weight	1 kg	TBC	TBC
Operating Temperature	0°C~55°C	-40°C~55°C	-40°C~70°C
Driver Support	Win 10 IoT, Linux Debian 11	Win 10 IOT, Linux Dabian 11	Win 10 IOT, Linux Dabian 11
Certification	UL, CB, CE/FCC Class A	CE/FCC, Class A	CE/FCC, Class A

Industrial Edge Computers



Intel Apollo Lake



Intel Skylake



Intel Coffee Lake S

Model Name	LEC-2137	LEC-2580	LEC-2290A
Processor System	Intel® Celeron® N3350 or Atom™ x7-E3950	Intel® Core™ i7-6600U/ i5-6300U/i3-6100U	Intel® Core™ i7-8700T/i7-8700/i7-9700TE Intel® Xeon® E-2278GEL
Memory	8GB	16GB	32GB
Graphics	1x HDMI, 1x VGA	2x HDMI	2x HDMI
Storage	1x mSATA Socket 1x 2.5" HDD/SSD Drive Bay	1x mSATA Socket 2x 2.5" HDD/SSD with RAID 0/1	2x Removable HDD/SSD Drive Bays
Ethernet	6x RJ45 or 2x RJ45 + 4x PoE	6x RJ45	2x GbE RJ45, 4x PoE RJ45
I/O	1x COM, 2x USB 2.0, 2x USB 3.0	4x COM, 2x USB 2.0, 4x USB 3.0	6x COM, 8x DIO, 4x USB 3.0
Expansion	1x Full-sized Socket 1x Half-sized Socket with SIM Card Reader	1x Full-sized Socket with SIM Card Reader 1x Half-sized Socket	1x Mini-PCIe, 1x M.2 B-Key 1x PCIe*16 & 1x PCIe*4
Power Supply	12VDC ~ 36VDC	24VDC	9VDC ~ 30VDC
Dimensions (W x H x D)	198 x 57 x 143.8 mm	240 x 60 x 173.8 mm	275 x 115 x 225 mm
Weight	1.6 kg	2 kg	6.2 kg
Operating Temperature	0°C ~ 55°C	0°C ~ 60°C	-20°C ~ 55°C (35W CPU) -20°C ~ 45°C (65W CPU)
Driver Support	WES7E, Win 7 Pro FES, WE 8.1 Industry Pro (64-bit), Linux	WES7, Win 7 Pro FES, WE 8.1 Industry Pro, Win10 IoT, Linux	Windows 10 IoT 64bits, Ubuntu 16, Fedora 25, Cent OS 7, Linux
Certification	CE/FCC, Class A	CE/FCC, Class A, UL	CE/FCC, Class A

Industrial Edge Computers



Intel Bay Trail



Intel Bay Trail



Intel Apollo Lake

Model Name	LEC-3030	LEC-3031	IoT-I330 NEW
Processor System	Intel® Celeron N2807 or Intel Atom E3815	Intel® Atom™ E3825	Intel® Atom™ X7-E3950/N3350
Memory	4GB	4GB	8GB
Graphics	1x VGA	1x VGA	1x Display Port
Storage	1x SATA port and HDD kit	1x SATA, 1x mSATA mini	Onboard eMMC 64GB 1x SATA, 1x mSATA
Ethernet	2 x RJ45	2 or 4 x RJ45 1.5KV Magnetic Isolation Protection	4x RJ45 (1x pair Bypass) or 2x RJ45 (one pair Bypass)+ 2x SFP
I/O	2x COM, 4x DIO, 1x USB 2.0, 1x USB 3.0	4~8x COM, 2x DIO, 1~3x USB 2.0 1x USB 3.0	2x COM, 2x CAN Bus 4x DIO, 2x USB 3.0
Expansion	N/A	N/A	1x M.2 B-Key For LTE, 1x M.2 E-Key For Wifi-6
Power Supply	12VDC ~ 36VDC	12VDC ~ 36VDC	12/24VDC
Dimensions (W x H x D)	52 x 130 x 127 mm	69 x 169.5 x 127 mm	160 x 156.5 x 81 mm
Weight	1 kg	1.2 kg	2 kg
Operating Temperature	-20°C ~ 55°C	-20°C ~ 70°C	-40°C ~ 70°C (Industrial-grade SKU) 0°C ~ 50°C (Commercial grade SKU)
Driver Support	Windows 7, Windows 7 Embedded, Linux	Windows 7, Windows 7 Embedded, Linux	Win 10 IoT, Linux Debian 10
Certification	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A, UL

In-Vehicle Computers

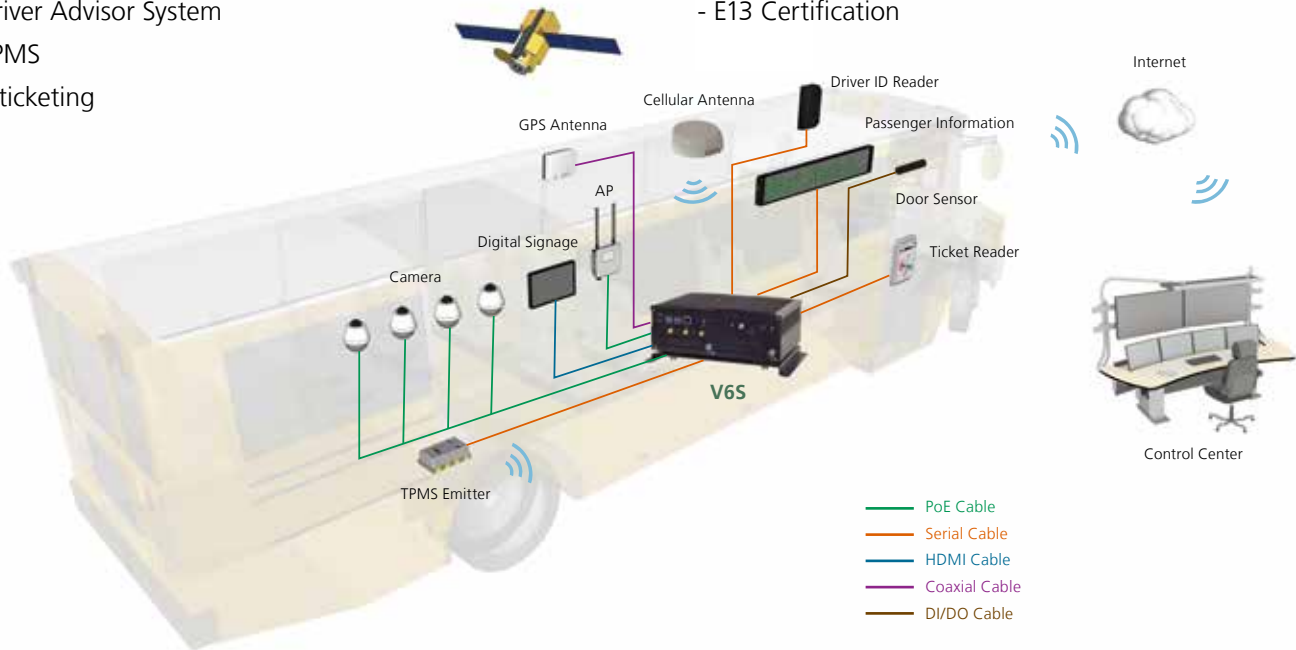
Vehicle Video Analytics

Target Applications

- Passenger Information
- Wi-Fi Hot Spot & LTE Connectivity
- Job Dispatch & GPS Tracking
- Emergency Alarm System
- Driver Advisor System
- TPMS
- E-ticketing

V6S

- Intel® Core i7-7600U CPU
- 10 x PoE, 1x Mini-PCle with 2 SIM sockets for 4G/LTE
- 1x Removable 2.5" Drive Bay
- Suspension Kit
- E13 Certification



In-Vehicle Edge Computers



Intel Bay Trail



Intel Apollo Lake, 4x PoE



Intel Kaby Lake, 10x PoE

Model Name	LVC-2001	V3S	V6S
Processor System	Intel® Atom™ E3825 or E3845	Intel® Atom™ x7-E3950	Intel® Core™ i7-7600U
Memory	4GB	8GB	32GB
Graphics	1x VGA, 1x HDMI	2x DVI-D	1x DVI-D, 1x VGA
Storage	1 x Internal 2.5" 9.5 mm Drive Bay	1x Removable 2.5" Drive Bay	2x Removable 2.5" Drive Bays
Ethernet	2x RJ45	6x RJ45 (4x PoE or 2x PoE+)	10x PoE (5x PoE+ & 5x PoE) and 1x RJ45
I/O	2x COM, 1x CAN Bus, 2x DIO, 1x USB 2.0, 1x USB 3.0	2x COM, Optional CAN Bus, 8x DIO, 2x USB 2.0,	2x COM, 1x CAN Bus 6x DIO, 2x USB 2.0, 2x USB 3.0
Expansion	2x Full-size mini-PCle socket, 1x Half-size mini-PCle socket	1x Full Size Mini-PCle, 1x Half Size Mini-PCle	1 x Full-sized Mini-PCle for LTE/ Wi-Fi, 1x Removable PGN Caddy
Power Supply	9VDC ~ 36VDC	9VDC ~ 36VDC	9VDC ~ 36VDC
Dimensions (W x H x D)	198 x 52 x 185 mm	273.8 mm x 73 mm x 185 mm	307 x 188 x 105.2 mm
Weight	1.8 kg	4 kg	20.8 kg
Operating Temperature	-20°C ~ 60°C	-40°C ~ 70°C	-20°C ~ 60°C
Driver Support	WES7 (WS7E)/W7 Pro SP1/WE8 STD/WIN 10 IOT, Linux	Windows 10, Linux	Win10 IoT, Linux
Certification	CE/FCC Class A, E13	CE Class A, FCC Class A, E13 include ISO 7637-2, MIL-STD-810G compliant	CE Class A, FCC Class A, E-13 include ISO-7637-2

In-Vehicle Computers

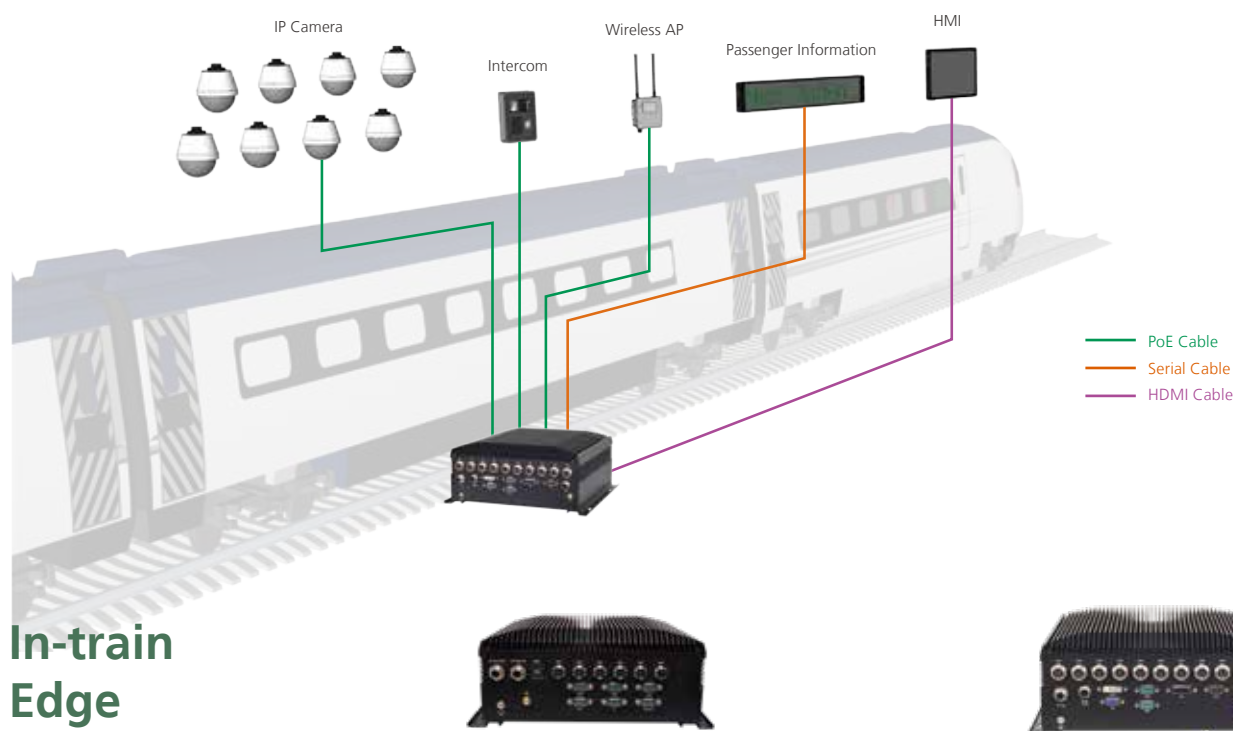
Railway Video Analytics

Target Applications

- Onboard Video Surveillance
- Audio Intercom
- GPS Location-Based Service
- Emergency Alarm System
- Passenger Information System
- Wi-Fi Hot Spot

R6S

- Intel® Core i7-7600U Processor
- EN50155 and EN45545 Certified
- 10x PoE, CAN Bus, 4x USB, 2 x COM, VGA, DVI-D
- 3x Mini-PCIe with SIM Card Readers
- Wide Operating Temperature -40 to 70°C
- Onboard GPS and G-sensor, 1x Removable 2.5" Drive Bay



In-train Edge Computers

Intel Apollo Lake, 6x PoE

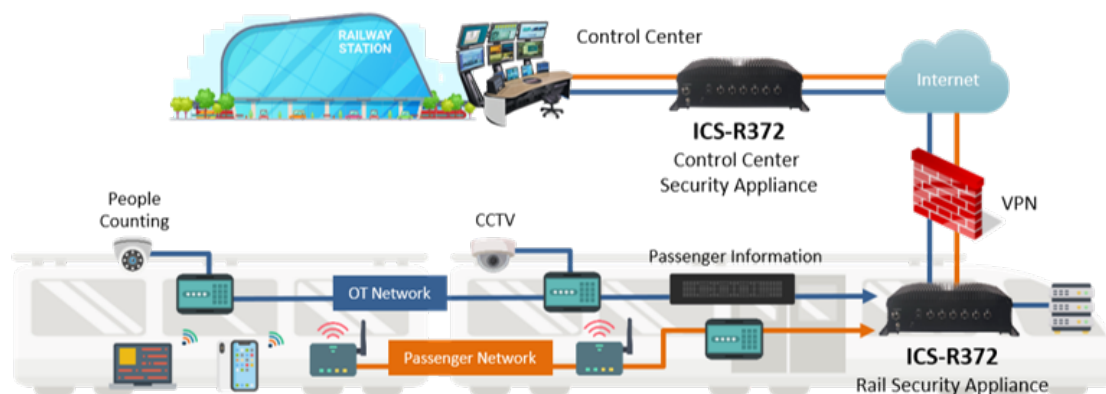
Intel Kaby Lake, 10x PoE



Model Name	R3S	R6S
Processor System	Intel® Atom™ x7-E3950	Intel® Core i7-7600U
Memory	8GB	16GB
Graphics	2x HDMI	1x VGA, 1x DVI-D or 2x HDMI
Storage	1x Removable 2.5" Drive Bay 1x mSATA Socket	1x Removable 2.5" Drive Bay 1x mSATA, 1x SDxC
Ethernet	6x PoE/PoE+ with M12 connectors 1x RJ45	10x PoE with M12 connectors 1x RJ45
I/O	3x COM, Optional CAN Bus 4x USB 2.0, 12x DI, 4x DO	2x or 4x COM (by SKU), Optional CAN Bus 7x DIO, 2x USB 2.0, 2x USB 3.0
Expansion	2x M.2 3042 B-Key	2x Full-size mini PCIe or 4x M.2 Socket For LTE + 1x Full-size mPCIe For WiFi
Power Supply	9VDC ~ 36VDC / 43VDC ~ 154VDC	32VDC ~ 96VDC or 24VDC ~ 36VDC or 72VDC ~ 110VDC
Dimensions (W x H x D)	272.4 x 114.3 x 228mm	272.4 x 121.3 x 230 mm
Weight	7 kg	20.8 kg
Operating Temperature	-40°C ~ 70°C	-40 ~ 70°C
Driver Support	Win 10 IoT, Linux	Win 10 IoT, Linux
Certification	E13, CE Class A, FCC Class A, MIL-STD-810G, EN50155, EN50121-3-2, EN50121-4, EN50125-3, EN 45545	MIL-STD-810G, EN 50155, EN 45545, EN 50121 CE Class A, FCC Class A, E13

Railway Cybersecurity

Railway cybersecurity is imperative and risk mitigation strategies need to be implemented to ensure secured operations and service continuity public safety. ICS-R372 Series is designed as a cost-effective embedded system, powered by Intel Apollo Lake CPU, providing quality performance with low power consumption for rolling stock cybersecurity application. ICS-R372 has passed extensive vibration and shock testing, earning compliance for EN50155 standard, making it exceptionally suitable for cybersecurity application in railway vehicles.



In-Vehicle OT Security Computers



Intel Apollo Lake



Intel Denverton



AMD Ryzen

Model Name	ICS-R372	ICS-R373 NEW	ICS-R570 NEW
Processor System	Intel Atom™ x7-E3950	Intel® Atom™ C3708/C3508/C3308	AMD Ryzen™ Embedded V1404I
Memory	8GB	64GB/32GB	32GB
Graphics	2x HDMI	N/A	2x HDMI
Storage	1x SATA, 1x mSATA	1x M.2 2242/2280 M-Key Onboard eMMC 128GB/32GB	1x M.2 2242/2280 M-Key Socket
Ethernet	6x GbE RJ45 with M12 Connectors	4x GbE RJ45, 2x 2.5GbE RJ45	6x 2.5GbE RJ45 with M12 Connectors 1x RJ45 Console, 1x RJ45 OOB
I/O	4x USB 2.0	2x USB 2.0, 1x RJ45 OOB	8x COM, 6x DIO, 2x USB 3.0, 2x CAN bus
Expansion	2x M.2 3042 B-Key	1x M.2 2230 E-Key For WiFi 2x M.2 3042/3050/3052 B-Key For LTE/5G	2x M.2 3042/3052 B-Key Socket or 5G 1x M.2 2230 E-Key Socket For WiFi (By SKU)
Power Supply	24VDC ~ 36VDC or 72VDC ~ 110VDC	24VDC ~ 110VDC	24VDC ~ 110VDC
Dimensions (W x H x D)	272.4 x 88.3 x 228 mm	280 x 83 x 196 mm	438 x 44 x 300 mm
Weight	5 kg	TBD	6 kg
Operating Temperature	-40°C ~ 70°C	-40°C ~ 70°C	-40°C ~ 75°C
Driver Support	Win 10 IoT, Linux	Dabian 10 pre-installed, Win 10 IoT	Windows 10 IoT, Linux
Certification	E13, CE Class A, FCC Class A, MIL-STD-810G, EN50155, EN50121-3-2, EN50121-4, EN50125, EN 45545	E13, CE Class A, FCC Class A, MIL-STD-810G, EN 50125-3, EN50124-1, C1D2 (By SKU), UL/IEC 62368-1, EN 50155, EN 50121-3-2, EN 50121-4, EN 45545-2, IEC-61850-3, IEEE 1613	CE Class A, FCC Class A, E13, UL/CB 62368-1 EN50155, EN45545-2, EN50121-3-2, EN50121-4, EN50125-3, IP-40, MIL-STD-810G

Industrial SD-WAN Platforms

Rugged 5G Outdoor Gateway

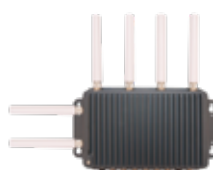
Lanner's ISD-O370 rugged gateway with 5G and micro SIM functionality is designed to provide backup cellular connectivity for intelligent traffic management infrastructure because it is reliable and secure. Indeed, operators are more motivated to offer attractive data service plans for large scale projects compatible with carrier aggregation technology, and backup SIM functionality can further provide uninterrupted connectivity by switching to a redundant operator service as needed.



Industrial Edge Computers



Intel Elkhart Lake
MIL-STD-810G



Intel Denverton
IP67, MIL-STD-810G

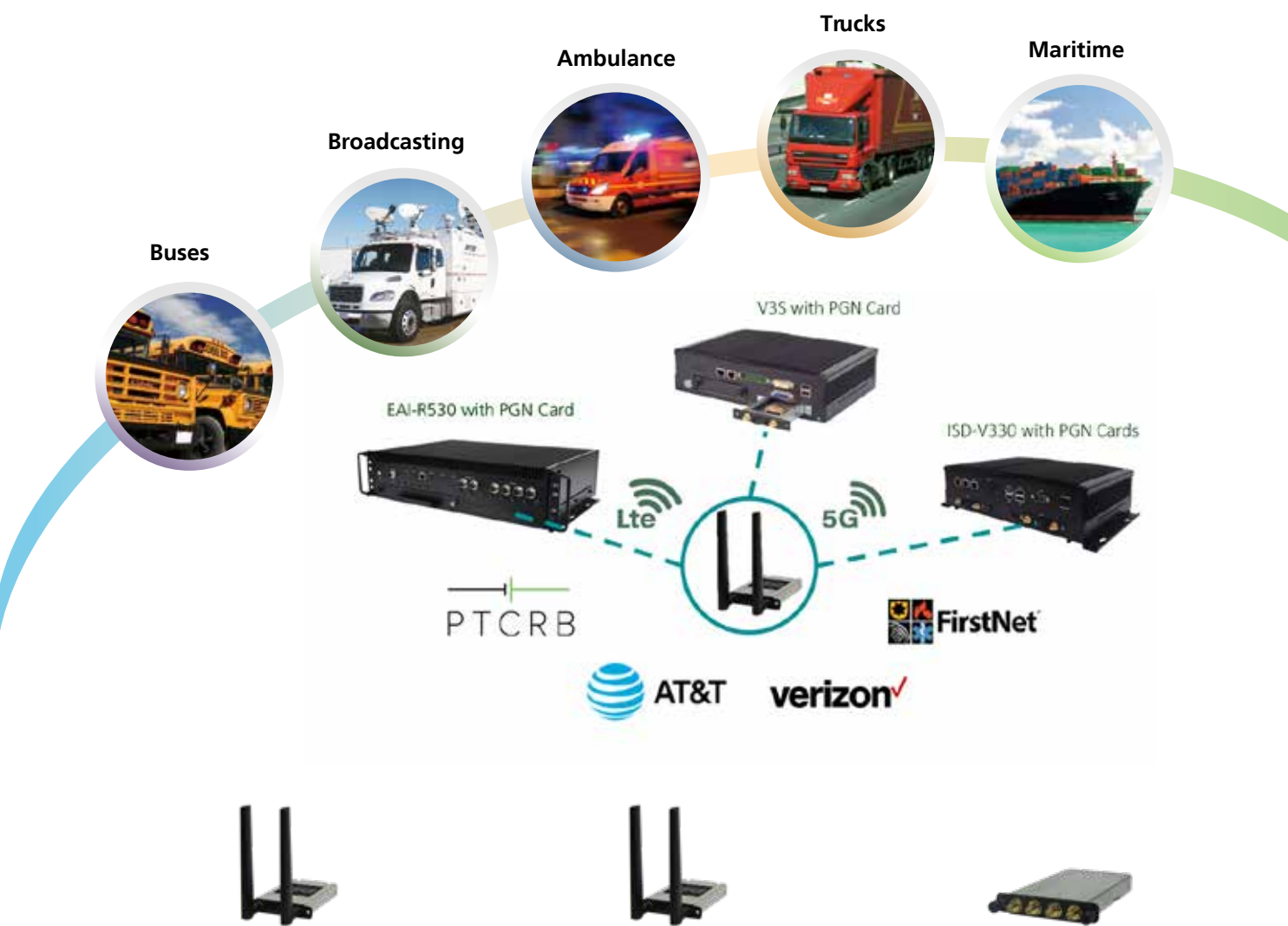


Intel Denverton

Model Name	ISD-V330 NEW	ISD-O370	NCR-1510
Processor System	Intel® Atom™ x6425RE	Intel® Atom™ C3000 Series	Intel® Atom™ C3308/C3508/C3708
Memory	32GB	64GB	32/64GB
Graphics	2x HDMI	N/A	1x HDMI
Storage	64GB eMMC, 1x SATA	128GB eMMC, 1x M.2 2242 B-Key	HDD/SSD Support 1 x 2.5" Bay (Optional)
Ethernet	2x RJ45	6x GbE RJ45 (2x PoE+) or 4x GbE RJ45 (2x PoE+)+2x 2.5GbE RJ45	4x RJ45, 2x SFP or 2x RJ45 (By SKU), 1 Pair of Gen3 Bypass
I/O	2x COM, 1x CAN Bus, 4x DIO 3x USB 2.0, 1x USB 3.0	USB 2.0, 1x Console	2 x USB 3.0, 1x Mini USB
Expansion	1x M.2 3042 B-Key Socket For LTE 1x M.2 2230 E-Key Socket For WiFi	1x M.2 304(5)2 B-Key Socket For 5G 1x M.2 2230 E-Key Socket For WiFi 6	1x M.2 3042 B-Key For LTE, 1x mPCIe for WiFi, LTE
Power Supply	9VDC ~ 36VDC	24VDC ~ 36VDC	9VDC ~ 54VDC
Dimensions (W x H x D)	273.8 x 73 x 185 mm	370 x 210 x 83 mm	310 x 44 x 240mm
Weight	4 kg	4.6 kg	3 kg
Operating Temperature	-40°C ~ 70°C	-40°C ~ 70°C / -40°C ~ 60°C (By SKU)	-40°C ~ 70°C / -40°C ~ 60°C (By SKU)
Driver Support	Windows 10 IoT Enterprise, Linux	Linux	Linux
Certification	CE/FCC Class A, E13, UL/cUL 62368-1, MIL-STD-810G	CE/FCC class A, UL 62368-1, CB, IP67, MIL-STD-810G	CE/FCC Class A

Mobile SD-WAN Platform

Certified by PTCRB, Verizon, AT&T and FirstNet, Lanner PGN Series is a swappable 4G LTE-ready radio modem for mission-critical communications. Optimally designed for intelligent VMS, mobility SD-WAN, 4G LTE failover for business continuity, the PGN Series is fully compatible with Lanner vehicle computers, industrial PCs and network appliances to offer scalability. The swappable caddy design makes the system maintenance easier in field change or upgrade for 24/7 uninterrupted operations.



Product Name	PGN-300 Swappable 4G LTE CAT-6 Radio Modem for Critical Communications	PGN-600 Swappable 4G/LTE CAT-12 Radio Modem for Mission-Critical Communications	PGN-750 Swappable 5G Radio Modem for Mission-Critical Communications
Feature	4G LTE CAT-6 Radio Modem Compatible for Lanner Vehicle PC, Industrial PC and Network Appliances - PTCRB and AT&T Certification Ready 2x SIM Card Readers, 2x 4G LTE Antenna - SATA connector with USB 3.0 signal and Hot Swappable Capability 4G LTE Failover for Business Continuity - Designed for Network Failover, Surveillance and Vehicle Applications - Swappable Caddy - Certification: PTCRB, AT&T, Verizon - System Compatibility: V3S,V6S,LEC-2290,NCR-1510D/E/F,FW-7573B, ISD-V330	4G/LTE CAT-12 Radio Modem Compatible with Lanner Vehicle PC, Industrial PC and Network Appliances - Certified with AT&T and PTCRB, and Compliant with CBRS and FirstNet 2x SIM Card Readers, 2x 4G LTE Antenna - SATA connector with USB 3.0 signal and Hot Swappable Capability 4G/LTE Failover for Constant Operations - Designed for Network Failover, Surveillance and Vehicle Applications - Swappable Caddy - Certification: PTCRB, AT&T, FirstNet - System Compatibility: V3S,V6S,LEC-2290,NCR-1510D/E/F,FW-7573B, ISD-V330	NEW 5G sub6 Radio Modem Compatible with Lanner Vehicle PC 2x nano SIM Card Readers, 4x Antenna Jack, with antenna / cable kit - SATA connector with USB 3.0 signal and Hot Swappable Capability 5G Failover for Constant Operations - Designed for Network Failover and Vehicle Applications - Swappable Caddy - Supports NSA and SA modes - System Compatibility: V3S, V6S, ISD-V330

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Lanner

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