

# Edge AI GPU Computing Platform

Flexible and Powerful GPU-aided Computing for Advanced Applications

## Worldwide Office

**Neusys Technology Taipei Headquarter**  
 15F., No.868-3, Zhongzheng Rd.,  
 Zhonghe Dist., New Taipei City, 23586, Taiwan  
 Tel: +886-2-22236182 Fax: +886-2-22236183  
 E-mail: sales@neusys-tech.com

**Neusys Technology America, Inc.**  
 3384 Commercial Avenue, Northbrook,  
 IL 60062, USA  
 Tel: +1-847-656-3298  
 E-mail: sales@neusys-tech.com

**Neusys Technology China Co., Ltd.**  
 Room 431, Building 33, Guiping Road 680,  
 Shanghai, 200233, China  
 Tel: +86-2161155366  
 E-mail: sales.cn@neusys-tech.com

[www.neusys-tech.com](http://www.neusys-tech.com)



[www.neusys-tech.com](http://www.neusys-tech.com)

# Ahead of the Curve - Industrial Edge AI GPU Computing Platform

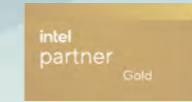
Based in Taiwan, Neusys Technology is a global leading manufacturer and provider of industrial edge AI GPU computing platforms.

With Expertise in industrial embedded systems and edge AI applications, Neusys continues to innovate and create patented technologies to be incorporated into industrial solutions. Designing and manufacturing industrial-grade rugged embedded systems and modules for over a decade, Neusys offers the most reliable and innovative embedded solutions on the market.

As one of the pioneers in industrial GPU computing, Neusys offers industry-leading edge AI platforms. With support for NVIDIA® Tensor Core GPUs, RTX professional series and mainstream dual/ single RTX graphics cards configuration, power-efficient Jetson™ and Google TPUs, Neusys platforms can satisfy a variety of edge AI workloads from volatile environments to demanding factory conditions.

Currently an NVIDIA® Jetson™ ecosystem partner, Tesla-Qualified Server, the sole collaborating IPC hardware vendor for Baidu Apollo 2.0 and a trusted partner around the globe in various vertical markets, you can find Neusys Technology industrial edge AI GPU computing platforms in manufacturing, intelligent transportation, marine, medical, agriculture, autonomous aerial, autonomous ground vehicles and more.

*Wide-temperature Operation*  
*I/Os with Screw-lock Mechanism*      *Shock and Vibration Resistant*  
*Patented Technology*      *Wide-range DC Input*

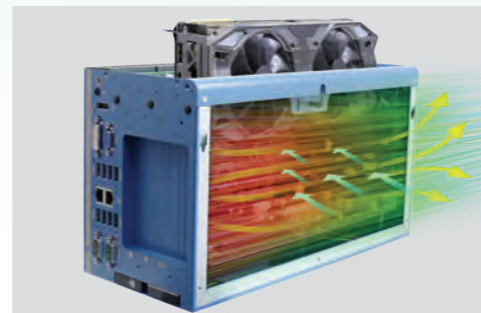


## Why Choose Neusys ?



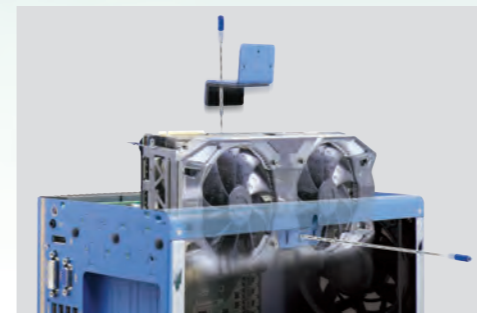
### Complete GPU Support

Ranging from Jetson Orin™, mainstream RTX, Tensor Core GPUs to RTX professional graphics cards for power-efficient or high-performance applications



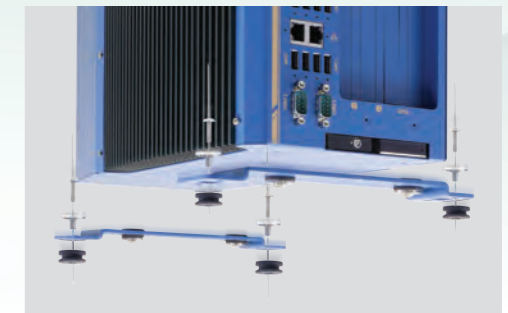
### Patented Thermal Design

Offering better heat distribution and dissipation for optimal performance to prevent CPU/ GPU from throttling.



### Adaptive GPU Bracket

The patented adaptive GPU bracket ensures installed graphics cards are always secured in position to withstand shock and vibration.



### Patented Damping Bracket

The patented damping bracket effectively absorbs shock and vibration up to 3Grms for reliable and stable operations.



### Multi-GPUs via Single Wide-range DC Input

Accepting a wide range DC input from 8V to 48V, and requires only a single source of power input to sustain operation for dual high end RTX GPU cards.



### Ignition Power Control

Built-in ignition control to safely shutdown and startup the system.



### Rich I/Os with Screw-lock Mechanism

Available with an abundance of I/Os and screw-lock mechanism for reinforced connections.



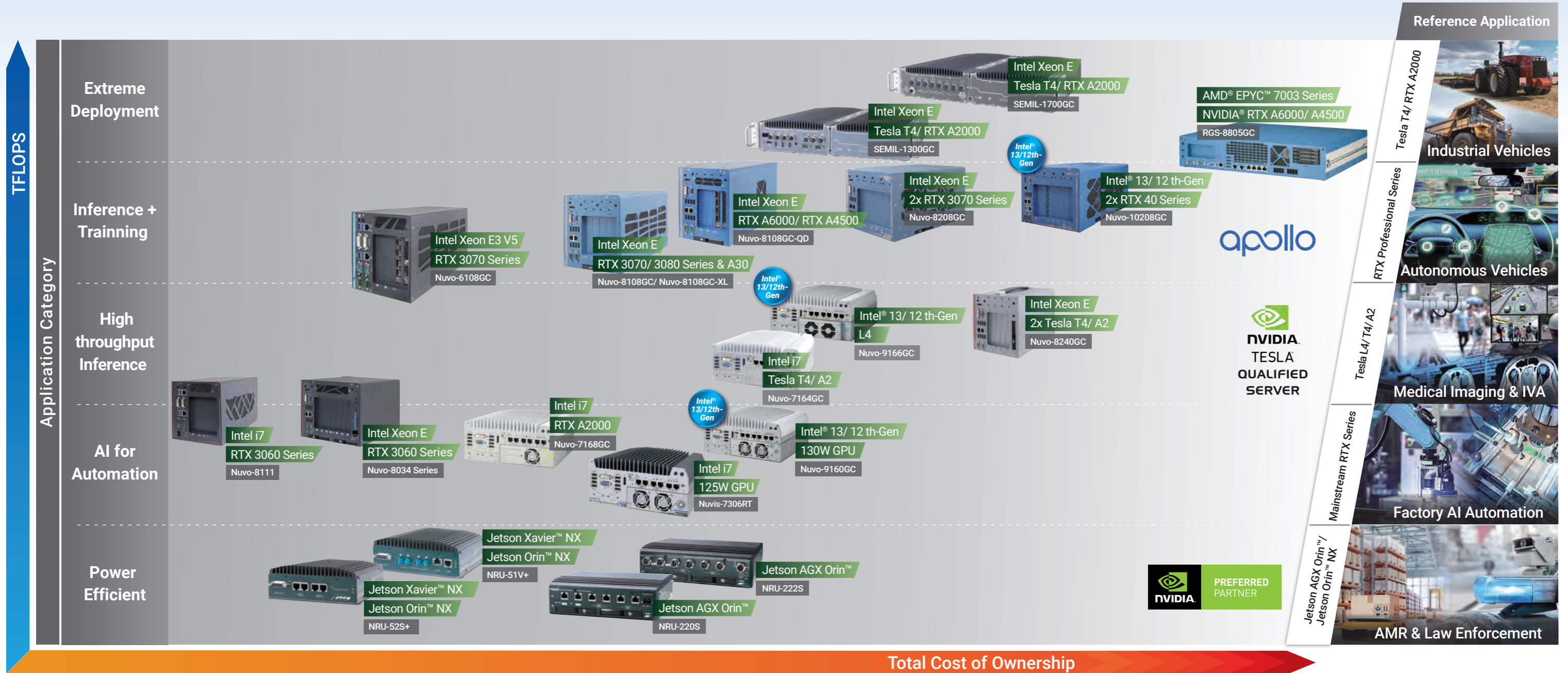
### Expansion Capability

PCIe/ PCI add-on slots allow for connectivity or functionality expansion.

# Versatile Edge AI GPU Platforms and Currently in Service

Addressing requirements for a variety of applications, Neosys offers a complete lineup of embedded edge AI GPU platforms that are powered by NVIDIA GPUs. Utilizing NVIDIA® Tensor cores, Neosys ruggedized edge AI platforms range from the environment demanding Tesla/L4/ RTX professional graphics inference accelerators, mainstream cost-effective RTX graphics cards in dual or single configuration to the power-efficient Jetson™ Xavier. All Neosys systems are optimized to bring out the efficiency and efficacy in AI training, and precision in complex deep learning computations. Coupled with patented innovative industrial embedded designs, performances are maximized to dramatically boost your edge AI applications.

Supporting up to an Intel® Xeon® E or 13th/ 12th-Gen Core™ CPU, Neosys edge AI computing solutions offer unparalleled performances with true wide-temperature operation capabilities to ensure CPU/ GPU do not thermal-throttle under harsh conditions. With an array of ruggedized solutions, Neosys edge AI GPU computing solutions can be found in image/ video analysis, deep learning machine vision, autonomous machines, and more.



Total Cost of Ownership



# Inference Accelerator Compatibility List



Neusys Model NVIDIA® GPU	SEMIL-1700GC SEMIL-1300GC	Nuvo-9166GC	Nuvo-9160GC	RGS-8805GC	Nuvo-10208GC	Nuvo-10108GC	Nuvo-8108GC-QD	Nuvo-8108GC-XL	Nuvo-8208GC	Nuvo-8111 Nuvo-8034	NRU-51V+ NRU-52S+	NRU-220S NRU-222S	PCIe-GL26	PCIe-NX154PoE PCIe-NX156U3	NRU-154PoE NRU-156U3
Tesla T4	✓	✓													
A2		✓													
A30								✓ (A30 Thermal Kit)							
L4		✓													
RTX A2000	✓		✓												
RTX 4000 SFF Ada			✓												
RTX A4500				✓	✓	✓	✓								
RTX A6000				✓	✓	✓	✓								
RTX 3050			✓							✓					
RTX 3060										✓					
RTX 3070/ 3070Ti								✓	✓						
RTX 3080								✓							
RTX 4080					✓	✓									
Jetson Xavier NX											✓		✓		
Jetson AGX Orin												✓			
Jetson Orin NX											✓			✓	✓

# GPU Computing Platform Specification Table



Extreme Deployment			
Model Name	RGS-8805GC	SEMIL-1700GC	SEMIL-1300GC
<b>Dimensions (W x D x H)</b>	444 x 350 x 88 mm	440 x 310 x 86.5 mm	440 x 310 x 86.5 mm
<b>Weight</b>	8.6 kg	12.2 kg (SEMIL-1748GC/ SEMIL-1728GC)/ 12 kg (SEMIL-1744GC/ SEMIL-1724GC)	12 kg
<b>Chassis Construction</b>	Aluminum alloy with heavy duty metal	Aluminum alloy with stainless steel /waterproof	Aluminum alloy with stainless steel
<b>IP Rating</b>	-	IP67	IP4X
<b>Processor</b>	AMD® EPYC™ 7003 "Milan" series server CPU	Intel® Xeon® E-2176G/ E-2278GE/ E-2278GEL Intel® Core™ i7-9700E/ i7-9700TE/ i7-8700/ i7-8700T Intel® Core™ i5-9500E/ i5-9500TE/ i5-8500/ i5-8500T Intel® Core™ i3-9100E/ i3-9100TE/ i3-8100/ i3-8100T	Intel® Xeon® E-2176G/ E-2278GE/ E-2278GEL Intel® Core™ i7-9700E/ i7-9700TE/ i7-8700/ i7-8700T Intel® Core™ i5-9500E/ i5-9500TE/ i5-8500/ i5-8500T Intel® Core™ i3-9100E/ i3-9100TE/ i3-8100/ i3-8100T
<b>Acceleration GPU</b>	NVIDIA® RTX A6000/A4500	NVIDIA® Tesla T4 (SEMIL-1744GC/ SEMIL-1748GC) NVIDIA® A2000 (SEMIL-1724GC/ SEMIL-1728GC) NVIDIA® Quadro P2200 (SEMIL-1724GC/ SEMIL-1728GC)	NVIDIA® Tesla T4 (SEMIL-1341GC) NVIDIA® A2000 (SEMIL-1321GC) NVIDIA® Quadro P2200 (SEMIL-1321GC)
<b>Chipset</b>	-	Intel® C246	Intel® C246
<b>Graphics</b>	ASPEED AST2500 BMC	Intel® UHD Graphics 630	Intel® UHD Graphics 630
<b>Memory</b>	Up to 512 GB DDR4-3200	Up to 64 GB DDR4-2666/ 2400	Up to 64 GB DDR4-2666/ 2400
<b>PoE</b>	IEEE 802.3at (25.5W) for 4 GbE ports	1x IEEE 802.3at (25.5W) by Intel I219 (M12 X-coded) 7x IEEE 802.3at (25.5W) by Intel I210 (M12 X-coded) (SEMIL-1748GC/ SEMIL-1728GC) 3x IEEE 802.3at (25.5W) by Intel I210 (M12 X-coded) (SEMIL-1744GC/ SEMIL-1724GC)	1x IEEE 802.3at (25.5W) by Intel I219 (M12 X-coded) 3x IEEE 802.3at (25.5W) by Intel I210 (M12 X-coded)
<b>10GbE Port</b>	2x 10GBASE-T by Intel® X550-AT2	Optional 1x 10G port (M12 X-coded)	Optional 1x 10G port (M12 X-coded)
<b>Video Port</b>	1x VGA	1x VGA (M12 A-coded)	1x VGA (M12 A-coded) 1x DisplayPort
<b>Serial Port</b>	2x RS-232/422/485	2x RS-232 ports (M12 A-coded)	2x RS-232 ports (M12 A-coded) 1x RS-232/422/485 1x RS-232
<b>USB 2.0</b>	-	4x USB 2.0 (M12 A-coded) (SEMIL-1748GC/ SEMIL-1728GC) 2x USB 2.0 (M12 A-coded) (SEMIL-1744GC/ SEMIL-1724GC) 1x USB 2.0 (internal)	2x USB 2.0 (M12 A-coded) 1x USB 2.0 (internal)
<b>USB 3.2/ USB 3.1</b>	4	-	3
<b>Audio</b>	-	1x Mic-in and speaker-out (M12 A-coded)	1x Mic-in and speaker-out
<b>Digital I/O</b>	-	-	-
<b>SATA HDD</b>	4	2	2
<b>mSATA</b>	-	2	2
<b>M.2 (M-key)</b>	1	1	1
<b>Mini PCI-E</b>	2	4 (mux with mSATA) (SEMIL-1748GC/ SEMIL-1728GC) 2 (mux with mSATA) (SEMIL-1744GC/ SEMIL-1724GC)	2 (mux with mSATA)
<b>M.2 (B-key/ E-Key)</b>	1x M.2 B-key	-	1x M.2 B-key 1x M.2 E-key
<b>SIM</b>	4	2	4
<b>MezIO™</b>	-	-	-
<b>PCI/PCI Express</b>	1x PCIe x16 slot @ Gen4, 1 6-lanes supporting NVIDIA® RTX A6000/A4500 2x PCIe x16 slots @ Gen4, 8-lanes	1x PCIe with NVIDIA® Tesla T4 pre-installed (SEMIL-1748GC/ SEMIL-1744GC) 1x PCIe with NVIDIA® Quadro P2200 pre-installed (SEMIL-1728GC/ SEMIL-1724GC)	1x PCIe with NVIDIA® Tesla T4 pre-installed (SEMIL-1341GC) 1x PCIe with NVIDIA® Quadro P2200 pre-installed (SEMIL-1321GC)
<b>DC Input</b>	8V to 48V DC	8V to 48V DC (M12 S-coded)	8V to 48V DC
<b>Ignition Control</b>	Built-in	Built-in	Built-in
<b>Operating Temperature</b>	-25°C ~ 60°C with 100% CPU/ GPU loading	<b>with 35W CPU</b> -25°C ~ 70°C <b>with &gt;= 65W CPU</b> -25°C ~ 70°C (configured as 35W TDP mode) -25°C ~ 50°C (configured as 65W TDP mode)	<b>with 35W CPU</b> -25°C ~ 70°C <b>with &gt;= 65W CPU</b> -25°C ~ 70°C (configured as 35W TDP mode) -25°C ~ 50°C (configured as 65W TDP mode)
<b>Certification</b>	EN 50155, CE/ FCC, MIL-STD-810G	EN 50155, CE/ FCC, MIL-STD-810G	EN 50155, CE/ FCC, MIL-STD-810G



Inference + Training						
Model Name	Nuvo-10208GC	Nuvo-10108GC	Nuvo-8208GC	Nuvo-8108GC-XL	Nuvo-8108GC-QD	
<b>Dimensions (W x D x H)</b>	268 x 400 x 196 mm	214 x 400 x 196 mm	235 x 360 x 186 mm	193 x 388 x 198 mm	170.2 x 360 x 201.8 mm	
<b>Weight</b>	6.5 kg	TBD	8.6 kg	5.8 kg / 5.2 kg	5.8 kg / 5.2 kg	
<b>Chassis Construction</b>	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	
<b>Processor</b>	Intel® Core™ i9-13900E/ i9-13900TE i9-12900E/ i9-12900TE Intel® Core™ i7-13700E/ i7-13700TE i7-12700E/ i7-12700TE Intel® Core™ i5-13500E/ i5-13400E/ i5-13500TE Intel® Core™ i3-13100E/ i3-13100TE Intel® Core™ i9-12900E/ i9-12900TE Intel® Core™ i7-12700E/ i7-12700TE Intel® Core™ i5-12500E/ i5-12500TE Intel® Core™ i3-12100E/ i3-12100TE Intel® Pentium® G7400E/ G7400TE Intel® Celeron® G6900E/ G6900TE	Intel® Core™ i9-13900E/ i9-13900TE Intel® Core™ i7-13700E/ i7-13700TE Intel® Core™ i5-13500E/ i5-13400E/ i5-13500TE Intel® Core™ i3-13100E/ i3-13100TE Intel® Core™ i9-12900E/ i9-12900TE Intel® Core™ i7-12700E/ i7-12700TE Intel® Core™ i5-12500E/ i5-12500TE Intel® Core™ i3-12100E/ i3-12100TE Intel® Pentium® G7400E/ G7400TE Intel® Celeron® G6900E/ G6900TE	Intel® Xeon® E-2176G/ E-2278GE/ E-2278GEL Intel® Core™ i7-9700E/ i7-9700TE/ i7-8700/ i7-8700T Intel® Core™ i5-9500E/ i5-9500TE/ i5-8500/ i5-8500T Intel® Core™ i3-9100E/ i3-9100TE/ i3-8100/ i3-8100T	Intel® Xeon® E-2176G/ E-2278GE/ E-2278GEL Intel® Core™ i7-9700E/ i7-9700TE/ i7-8700/ i7-8700T Intel® Core™ i5-9500E/ i5-9500TE/ i5-8500/ i5-8500T Intel® Core™ i3-9100E/ i3-9100TE/ i3-8100/ i3-8100T	Intel® Xeon® E-2176G/ E-2278GE/ E-2278GEL Intel® Core™ i7-9700E/ i7-9700TE/ i7-8700/ i7-8700T Intel® Core™ i5-9500E/ i5-9500TE/ i5-8500/ i5-8500T Intel® Core™ i3-9100E/ i3-9100TE/ i3-8100/ i3-8100T	Intel® Xeon® E-2176G/ E-2278GE/ E-2278GEL Intel® Core™ i7-9700E/ i7-9700TE/ i7-8700/ i7-8700T Intel® Core™ i5-9500E/ i5-9500TE/ i5-8500/ i5-8500T Intel® Core™ i3-9100E/ i3-9100TE/ i3-8100/ i3-8100T
<b>Chipset</b>	Intel® R680E	Intel® R680E	Intel® C246	Intel® C246	Intel® C246	
<b>Graphics</b>	Intel® HD Graphics 770/ 730	Intel® HD Graphics 770/ 730	x16 PEG port, or Intel® HD Graphics 630	x16 PEG port, or Intel® HD Graphics 630	x16 PEG port, or Intel® HD Graphics 630	
<b>Memory</b>	Up to 64GB DDR5 4800 SDRAM	Up to 64GB DDR5 4800 SDRAM	Up to 128 GB DDR4-2133	Up to 128 GB DDR4-2133	Up to 128 GB DDR4-2133	
<b>PoE</b>	-	-	-	-	-	
<b>Ethernet</b>	2x 2.5GbE (I226-IT) GbE 1x GbE (I219-LM)	2x 2.5GbE (I226-IT) GbE 1x GbE (I219-LM)	1x GbE by Intel® I219 1x GbE by Intel® I210	1x GbE by Intel® I219 1x GbE by Intel® I210	1x GbE by Intel® I219 1x GbE by Intel® I210	
<b>Video Port</b>	1x VGA 1x DisplayPort	1x VGA 1x DisplayPort	1x VGA 1x DVI-D 1x DisplayPort	1x VGA 1x DVI-D 1x DisplayPort	1x VGA 1x DVI-D 1x DisplayPort	
<b>Serial Port</b>	2x RS-232/ 422/ 485 ports	2x RS-232/ 422/ 485 ports	2x RS-232/422/485	2x RS-232/422/485	2x RS-232/422/485	
<b>USB 2.0</b>	1 (internal)	1 (internal)	1 (internal)	1 (internal)	1 (internal)	
<b>USB 3.2/ USB 3.1</b>	6	6	8	8	8	
<b>Audio</b>	1x mic-in and speaker-out	1x mic-in and speaker-out	1xmic-in and speaker-out	1x mic-in and speaker-out	1x mic-in and speaker-out	
<b>Digital I/O</b>	-	-	-	-	-	
<b>SATA HDD</b>	2x hot-swap tray for 2.5" HDD/ SSD	1x front-accessible, hot-swappable for 2.5" HDD/ SSD	2x Hot-swap tray for 2.5" HDD/ SSD	1x 2.5" HDD/ SSD 1x hot-swap tray for 2.5" HDD/ SSD	1x 2.5" HDD/ SSD 1x hot-swap tray for 2.5" HDD/ SSD	
<b>mSATA</b>	2	2	2 (mux. with mini-PCIe)	2 (mux. with mini-PCIe)	2 (mux. with mini-PCIe)	
<b>M.2 (M-key)</b>	1x M key socket (Gen4 x4) 1x M key tray (Gen4 x4) (Optional)	1x M key socket (Gen4 x4) 1x M key tray (Gen4 x4) (optional)	1	1	1	
<b>Mini PCI-E</b>	2	2	2	2	2	
<b>M.2 (B-key/E-Key)</b>	1	1	1	1x M.2 B-key / 1	1x M.2 B-key / 1	
<b>SIM</b>	-	-	4	4	4	
<b>MezIO™</b>	-	-	-	-	-	
<b>PCI/PCI Express</b>	2x PCIe x16 slot@Gen4, 8-lanes 3x PCIe x8 slot@Gen3, 4-lanes	1x PCIe x16 slot @Gen4, 16-lane 3x PCIe x8 slots @Gen3, 4-lanes	2x PCIe x16 slot @ Gen3, 8-lanes supporting NVIDIA® RTX 30 series 2x PCIe x8 slots @ Gen3, 4-lanes 1x PCIe x4 slot @ Gen3, 1-lane (Installing a GPU card will obstruct one PCIe slot)	1x PCIe x16 slot @ Gen3, 8-lanes supporting NVIDIA® RTX A6000/ A4500/3080 1x PCIe x16 slot @ Gen3, 8-lanes 2x PCIe x8 slots @ Gen3, 4-lanes (Installing a GPU card will obstruct one PCIe slot)	1x PCIe x16 slot @ Gen3, 8-lanes supporting NVIDIA® RTX A6000/ A4500/3080 1x PCIe x16 slot @ Gen3, 8-lanes 2x PCIe x8 slots @ Gen3, 4-lanes (Installing a GPU card will obstruct one PCIe slot)	
<b>DC Input</b>	8V to 48V DC	8V to 48V DC	8V to 35V DC	8V to 48V DC	8V to 48V DC	
<b>Ignition Control</b>	Built-in	Built-in	Built-in	Built-in	Built-in	
<b>Operating Temperature</b>	<b>With 35W CPU and 350W GPU</b> -25°C to 60°C <b>with 65W CPU and 350W GPU</b> -25°C ~ 60°C (with optional fan kit) -25°C ~ 50°C (without optional fan kit)	<b>With 35W CPU and 350W GPU</b> -25°C to 60°C <b>with 65W CPU and 350W GPU</b> -25°C ~ 60°C (with optional fan kit) -25°C ~ 50°C (without optional fan kit)	-25°C ~ 60°C	-25°C ~ 60°C	-25°C ~ 60°C	
<b>Certification</b>	CE/ FCC	CE/ FCC	CE/ FCC	CE/ FCC	CE/ FCC	

# GPU Computing Platform Specification Table



	High-throughput Inference	AI for Automation				
Model Name	Nuvo-8240GC	Nuvo-9166GC	Nuvo-9160GC	Nuvo-8034		
Chassis	<b>Dimensions (W x D x H)</b>	190 x 271 x 198.5 mm	240 x 225 x 110.5 mm	240 x 225 x 110.5 mm	259 x 280 x 198 mm	
	<b>Weight</b>	3.5 kg	4 kg	3.6 kg	7 kg	
	<b>Chassis Construction</b>	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	
System	<b>Processor</b>	Intel® Xeon® E-2176G/ E-2278GE/ E-2278GEL Intel® Core™ i7-9700E/ i7-9700T/ i7-8700 Intel® Core™ i5-9500E/ i5-9500T/ i5-8500/ i5-8500T Intel® Core™ i3-9100E/ i3-9100T/ i3-8100/ i3-8100T	Intel® Core™ i9-13900E/ i9-13900TE i9-12900E/ i9-12900TE Intel® Core™ i7-13700E/ i7-13700TE i7-12700E/ i7-12700TE Intel® Core™ i5-13500E/ i5-13400E/ i5-13500TE i5-12500E/ i5-12500TE Intel® Core™ i3-13100E/ i3-13100TE i3-12100E/ i3-12100TE Intel® Pentium® G7400E/ G7400TE Intel® Celeron® G6900E/ G6900TE	Intel® Core™ i9-13900E/ i9-13900TE i9-12900E/ i9-12900TE Intel® Core™ i7-13700E/ i7-13700TE i7-12700E/ i7-12700TE Intel® Core™ i5-13500E/ i5-13400E/ i5-13500TE i5-12500E/ i5-12500TE Intel® Core™ i3-13100E/ i3-13100TE i3-12100E/ i3-12100TE Intel® Pentium® G7400E/ G7400TE Intel® Celeron® G6900E/ G6900TE	Intel® Xeon® E-2176G/ E-2124G/ E-2278GE/ E-2278GEL Intel® Core™ i7-9700E/ i7-9700T/ i7-8700 Intel® Core™ i5-9500E/ i5-9500T/ i5-8500/ i5-8500T Intel® Core™ i3-9100E/ i3-9100T/ i3-8100/ i3-8100T	
	<b>Chipset</b>	Intel® C246	Intel® Q670E	Intel® Q670E	Intel® C246	
	<b>Graphics</b>	Intel® UHD Graphics 630	Intel® UHD Graphics 770/ 730	Intel® UHD Graphics 770/ 730	Intel® HD Graphics 630, or x16 PEG port	
	<b>Memory</b>	Up to 128 GB DDR4-2133	Up to 64 GB DDR5 4800	Up to 64 GB DDR5 4800	Up to 128 GB DDR4-2133	
I/O Interface	<b>PoE</b>	-	Optional (Port 3 to 6, IEEE 802.3at, 25.5W)	Optional (Port 3 to 6, IEEE 802.3at, 25.5W)	-	
	<b>Ethernet</b>	1x GbE by Intel® I219 1x GbE by Intel® I210	5x 2.5GbE by Intel® I225 1x GbE by Intel® I219-LM	5x 2.5GbE by Intel® I225 1x GbE by Intel® I219-LM	1x GbE by Intel® I219 1x GbE by Intel® I210	
	<b>Video Port</b>	1x VGA 1x DVI-D 1x DisplayPort	1x VGA 1x DVI-D 1x DisplayPort	1x VGA 1x DVI-D 1x DisplayPort	1x VGA 1x DVI-D 1x DisplayPort	
	<b>Serial Port</b>	2x RS-232/422/485	2x RS-232/422/485 2x RS-232	2x RS-232/422/485 2x RS-232	2x RS-232/422/485 2x RS-232 (optional)	
	<b>USB 2.0</b>	1 (internal)	2	2	1 (internal)	
	<b>USB 3.2/ USB 3.1</b>	8	7 (incl. 1x 20Gbps type-C)	7 (incl. 1x 20Gbps type-C)	8	
	<b>Audio</b>	1x Mic-in and speaker-out	1x mic-in and speaker-out	1x mic-in and speaker-out	1x Mic-in and speaker-out	
	<b>Digital I/O</b>	-	Optional via MeziO™ module	Optional via MeziO™ module	8 DI + 8 DO	
	Storage Interface	<b>SATA HDD</b>	1x 2.5" HDD/ SSD 1x Hot-swap tray for 2.5" HDD/ SSD	2x 2.5" HDD/ SSD	2x 2.5" HDD/ SSD	2x hot-swap tray for 2.5" HDD/ SSD
		<b>mSATA</b>	2 (mux. with mini-PCIe)	-	-	2 (mux. with mini-PCIe)
<b>M.2 (M-key)</b>		1	1	1	1	
<b>Mini PCI-E</b>		2	1	1	2	
Expansion Bus	<b>M.2 (B-key/E-Key)</b>	1	1x M.2 B-key	1x M.2 B-key	1x M.2 B-key	
	<b>SIM</b>	4	2	2	4	
	<b>MeziO™</b>	-	Yes	Yes	-	
	<b>PCI/PCI Express</b>	2x PCIe x16 slot, supporting NVIDIA® Tesla T4 GPU 2x PCIe x8 slots @ Gen3, 4-lanes	1x PCIe x16 slot, supporting NVIDIA® L4 GPU	1x PCIe x16 slot, supporting NVIDIA® GPU (130W)	2x PCIe x16 slot @ Gen3, 8-lanes 2x PCIe x8 slots @ Gen3, 4-lanes 3x 33MHz/ 32-bit 5V PCI slots	
Power Supply	<b>DC Input</b>	8V to 48V DC	8V to 48V DC	8V to 48V DC	8V to 35V DC	
	<b>Ignition Control</b>	Built-in	Optional via MeziO™ module	Optional via MeziO™ module	Built-in	
Environmental	<b>Operating Temperature</b>	-25°C ~ 60°C	with 35W CPU and 130W GPU -25°C ~ 60°C with 65W CPU and 130W GPU -25°C ~ 60°C	with 35W CPU and 130W GPU -25°C ~ 60°C with 65W CPU and 130W GPU -25°C ~ 60°C	-25°C ~ 60°C	
	<b>Certification</b>	CE/ FCC	CE/ FCC	CE/ FCC	CE/ FCC	



	Power Efficient							
Model Name	NRU-222S/NRU-220S	NRU-525+	NRU-51V+	PCIe-GL26	PCIe-NX154PoE	PCIe-NX156U3		
Chassis	<b>Dimensions (W x D x H)</b>	230 x 173 x 66 mm	173 x 144 x 60 mm	173 x 144 x 60 mm	167.7 x 111 mm	167.7 x 111 mm	167.7 x 111 mm	
	<b>Weight</b>	TBD	1.4 kg	1.4 kg	0.43 kg	TBD	TBD	
	<b>Chassis Construction</b>	Wall-mount with damping brackets	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	Aluminum alloy with heavy duty metal	
System	<b>Processor</b>	NVIDIA® Jetson AGX Orin™	NVIDIA® Jetson Orin™ NX (NRU-525+/JON8/ JON16) NVIDIA® Jetson Xavier™ NX (NRU-525+/JXN8/ JXN16)	NVIDIA® Jetson Orin™ NX (NRU-51V+/JON8/ JON16) NVIDIA® Jetson Xavier™ NX (NRU-51V+/JXN8/ JXN16)	NVIDIA® Jetson Xavier™ NX	NVIDIA® Jetson Orin™ NX	NVIDIA® Jetson Orin™ NX	
	<b>Chipset</b>	-	-	-	-	-	-	
	<b>Graphics</b>	-	-	-	-	-	-	
	<b>Memory</b>	AGX Orin 32GB/ 64GB @ 3200 MHz	8GB/ 16GB LPDDR5@ 3200 MHz (NRU-525+/JON8/ JON16) Xavier™ NX 8GB/ 16GB @1600/1866 MHz (NRU-525+/JXN8/ JXN16)	8GB/ 16GB LPDDR5@ 3200 MHz (NRU-51V+/JON8/ JON16) Xavier™ NX 8GB/ 16GB @1600/1866 MHz (NRU-51V+/JXN8/ JXN16)	NX 8GB/ 16GB @ 1600/ 1866 MHz	8GB/ 16GB @ 3200 MHz	8GB/ 16GB @ 3200 MHz	
I/O Interface	<b>PoE/GMSL</b>	IEEE 802.3at PoE+ PSE for Port 3 ~ Port 6	IEEE 802.3bt PoE++ for 4 GbE ports	4x GMSL2 FAKRA Z	6x GMSL2 FAKRA Z	IEEE 802.3bt PoE++ for 4 GbE ports	-	
	<b>Ethernet</b>	2x 2.5GbE by Intel® I225 via M12 (NRU-222S) 2x 2.5GbE by Intel® I225 via RJ45 (NRU-220S) 4x 1Gbps via M12	4x GbE ports	1x 10GBASE-T 10G 1x 1GBASE-T 1GbE	1x GbE ports	4x 2.5GBASE-T	1x GbE ports	
	<b>Video Port</b>	1x DisplayPort	1x DisplayPort	1x DisplayPort	1x DisplayPort	1x DisplayPort	1x DisplayPort	
	<b>Serial Port</b>	1x isolated RS-485 2x RS-232	1x RS-232/422/485	1x RS-232/422/485	1x RS-232	1x RS-232 1x isolated RS-485	1x RS-232 1x isolated RS-485	
	<b>USB 2.0</b>	2	-	-	2	2	-	
	<b>USB 3.2/ USB 3.1</b>	1	2	2	-	-	6	
	<b>Audio</b>	-	-	-	-	-	-	
	<b>Digital I/O</b>	4 DI + 4 DO	1x GPS PPS, 3 DI + 4 DO	1x GPS PPS, 3 DI + 4 DO	1x GPS PPS	-	-	
	Storage Interface	<b>SATA HDD</b>	2x front-accessible 2.5" 7mm SSD	-	-	-	-	-
		<b>mSATA</b>	-	-	-	-	-	-
<b>M.2 (M-key)</b>		-	-	-	1	1	1	
<b>Mini PCI-E</b>		2	2	2	-	-	-	
Expansion Bus	<b>M.2 (B-key/E-Key)</b>	1x M.2 B-key	1x M.2 B-key	1x M.2 B-key	-	-	-	
	<b>SIM</b>	2	2	1	-	-	-	
	<b>MeziO™</b>	-	-	-	-	-	-	
	<b>PCI/PCI Express</b>	-	-	-	-	-	-	
Power Supply	<b>DC Input</b>	8V to 48V DC	8V to 35V DC	8V to 35V DC	12V DC	12V DC	12V DC	
	<b>Ignition Control</b>	Built-in	Built-in	Built-in	-	-	-	
Environmental	<b>Operating Temperature</b>	-25°C ~ 70°C (30W TDP mode)	-25°C ~ 70°C (15W TOP mode with 50W PoE++) -25°C ~ 70°C with optional fan kit (15W TOP mode with 144W PoE++)	-25°C ~ 60°C (15W TDP mode) -25°C ~ 70°C with optional fan kit (15W TDP mode)	-25°C ~ 60°C (20W TDP mode)	-25°C ~ 60°C (20W TDP mode)	-25°C ~ 60°C (20W TDP mode)	
	<b>Certification</b>	CE/ FCC	EN50155, CE/ FCC	CE/ FCC	CE/ FCC	CE/ FCC	CE/ FCC	