









ADVANCED TECHNOLOGIES

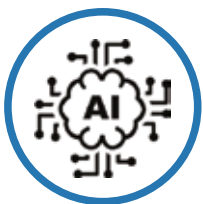


**Unlock**  
**the Power of AI**  
Neural Network Solutions

HIGH PERFORMANCE | MULTI GPU SOLUTIONS | OPTIMIZED FOR TRAINING AND INFERENCE

NVIDIA ADA Lovelace Architecture	CUDA CORES	TENSOR CORES	RAY TRACING CORES	GPU MEMORY	MEMORY BANDWIDTH <small>(Gigabyte per second Gbps)</small>	FLOATINGPOINT PERFORMANCE TFLOPS	RT CORE PERFORMANCE	TENSOR PERFORMANCE	DIMENSION	SLOT	HEIGHT MAXIMUM POWER CONSUMPTION Watt	
<b>A6000 ADA</b> DS: 48GB 300W PCIe Gen4 	18176	568	142	48	960	91,1	210,6	1457	111,76mm X 266,7mm	2	FULL	300
<b>A5000 ADA</b> DS: 32GB 250W PCIe Gen4 	12800	400	100	32	576	65,3	151	1044,4	111,76mm X 266,7mm	2	FULL	250
<b>A4500 ADA</b> DS: 24GB 210W PCIe Gen4 	7680	240	60	24	432	39,6	91,6	634	111,76mm X 266,7mm	2	FULL	210
<b>A4000 ADA</b> SS: 20GB 130W PCIe Gen4 	6144	192	48	20	360	26,7	61,8	327,6	111,76mm X 266,7mm	1	FULL	130
<b>A4000 ADA SFF</b> LP DS: 20GB 70W PCIe Gen4 	6144	192	48	20	280	19,2	44,3	306,8	68,58mm X 167,4mm	2	HALF	70
<b>A2000 ADA</b> LP DS: 16GB 70W PCIe Gen4 	2816	88	22	15	224	12	27,7	191,9	68,58mm X 167,4mm	2	HALF	70

## IDEAL FOR



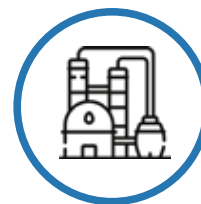
Artificial  
Intelligence



Animation



Broadcast














Oil & Gas



Medical  
Imaging

## PRODUCTS

	MODEL	FEATURES	MODEL	FEATURES
	 <b>10108GC</b>	Industrial Edge AI Computer Supporting Single 350W NVIDIA® RTX™ GPU, Intel® 13th/ 12th-Gen Core™ Processor with Three Additional PCIe Slots	 <b>10208GC</b>	Edge AI Platform Supporting Dual 350W NVIDIA® RTX GPU Cards, Intel® 13th/ 12th-Gen Core™ CPU with Additional PCIe Slots & 2.5G/1G Ethernet Ports
	 <b>EPC-B3000</b>	EPC-B3000 Series is a 3U System for Micro-ATX Motherboards with up to 4 PCIe Expansion Slots 	 <b>EPC-B5000</b>	EPC-B5000 Series 4U System for Micro-ATX Motherboards with up to 4 PCIe Expansion Slots 
	 <b>QUANTUM-R</b>	Quantum-R - Rack Mount Industrial PC Up to latest CPU generation Multi GPU	 <b>QUANTUM-W</b>	Quantum-W - Wall Mount Industrial PC Up to latest CPU generation Compact solution

HARSH ENVIROMENT | LOW POWER | COMPLETELY INTEGRATED IN NVIDIA ECOSYSTEM

JETSON MODULE	CPU			GPU			MEMORY			CONNECTION			MAX POWER CONSUMPTIO (W)
	CORES	MODEL NAME	FREQUENCY (GHz)	CUDA CORES	ARCHITECTURE	NVIDIA Deep Learning Accelerator (NVDLA)	QUANTITY	MODEL	BANDWIDTHT (GB/s)	MAX CAMERA SUPPORTED	ETHERNET CONNECTION	CSI CAMERA	
<b>Nano</b>	4	A57	1,5	128	Maxwell		4	64bit LPDDR4	25,6	4	1Gbe	12 lanes (3x4   4x2) MIPI CSI-2 D-PHY 1.1 lanes (1.5 Gbps)	10
<b>TX2</b>	4	A57	2	256	Maxwell		8	128bit LPDDR4	59,7	6	1Gbe	12 lanes (3x4   6x2) MIPI CSI-2 D-PHY 1.2 lanes (2.5Gbps)	15
<b>AGX Xavier</b>	8	CAMEL	2,26	512	Volta		32	256bit LPDDR4	136,5	36*	1Gbe	16 lanes (4x4   6x2   6x1) MIPI CSI-2 8 lanes S-LVS-EC D-PHY 1.2 (2.5Gbps total up to 40 Gbps) C-PHY 1.1 (2.5Gsym/s total up to 109 Gbps)*	30
<b>Xavier NX</b>	6	CAMEL	1,1	384	Volta	V	8	128bit LPDDR4	51,2	36*	1Gbe	14 lanes(3x4   1x21   6x2 ) MIPI CSI-2 D-PHY 1.2 (2.5 Gb/s per pair, total up to 30 Gbps)	15
<b>AGX Orin</b>	12	Coretex A78AE	1,3	2048	Ampere	V	32/64	256bit LPDDR4	204,8	6	10Gbe	16 lanes MIPI CSI-2 D-PHY 2.1 (up to 40 Gbps) C-PHY 2.0 (up to 164 Gbps)	60
<b>Orin Nano</b>	6	Coretex A78AE	0,625	1024	Ampere	V	8	128bit LPDDR4	68		1Gbe	8 MIPI CSI-2 D-PHY 2.1 (UP TO 20GBPS)	15

\* with external aggregator

## PRODUCTS

	MODEL	SERIES	TYPE	FEATURES
	<b>NRU-220S</b> <b>NRU-222S</b>		Rugged AI NVR	NVIDIA® Jetson AGX Orin™ AI NVR for Intelligent Video Analytics
	<b>NRU-52S+</b> <b>NRU-52S</b>		Rugged AI NVR	Rugged NVIDIA® Jetson Orin™ NX/ Xavier™ NX Edge AI Computer with 4x PoE++ Ports for Intelligent Video Analytics
	<b>NRU-120S</b>		Rugged AI NVR	NVIDIA® Jetson AGX Xavier™ AI NVR Fanless Computer for Intelligent Video Analytics
	<b>NRU-51V+</b> <b>NRU-51V</b>		GMSL Camera Sensor Hub	Rugged NVIDIA® Jetson Orin™ NX/ Xavier™ NX GMSL2 Camera Sensor Hub for Autonomous Vehicles and Teleoperation
	<b>NRU-110V</b>		GMSL Camera Sensor Hub	NVIDIA® Jetson AGX Xavier™ Edge AI Fanless Computer Supporting 8x GMSL Automotive Cameras & 10G Ethernet
	<b>PCIe-GL26</b>		GMSL Camera Sensor Hub	Xavier™ NX AI-enabled 6-port GMSL2 Camera Frame Grabber Card
	<b>PCIe-NX156U3</b>		Intelligent frame grabber	Orin™ NX 100 TOPS Intelligent Frame Grabber Card with 6x USB 3.2 ports for AI Inspection
	<b>PCIe-NX156U3</b>		Intelligent frame grabber	Orin™ NX 100 TOPS Intelligent Frame Grabber Card with 4x PoE+ ports for IVA or AI Inspection

MXM MODULE	ARCHITECTURE	CUDA CORES	TENSOR CORES	RAY TRACING CORES	GPU MEMORY	MEMORY BANDWIDTH (GB/s) <small>(GDDR6 or GDDR6X)</small>	FP32 PERFORMANCE	PCI-EXPRESS LANES	GPU BASE/BOOST CLOCK	PCI-EXPRESS GENERATION	DIMENSION	MXM VERSION	TYPE	MAXIMUM POWER CONSUMPTION Watt	(PROPRIETARY THERMAL SOLUTION REQUIRED)
<b>5000 A</b>	ADA-LOVELACE	9728	304	76	16	576	41,15	16	1425 MHz/2115 MHz	4	82mm X 105mm	3.1	B+	115	V
<b>3500 A</b>	ADA-LOVELACE	5120	160	40	12	432	23,05	16	1725 MHz/2250 MHz	4	82mm X 105mm	3.1	B+	115	V
<b>2000 A</b>	ADA-LOVELACE	3072	96	24	8	256	12,99	8	1635 MHz/2115 MHz	4	82mm X 70mm	3.1	A	60	-
<b>A500</b>	AMPERE	2048	64	16	1	112	6,54	4	652 MHz/1597 MHz	3	82mm X 70mm	3.1	A	35	-
<b>A1000</b>	AMPERE	2084	64	16	4	224	6,66	8	1192 MHz/1624 MHz	3	82mm X 70mm	3.1	A	60	-
<b>A2000</b>	AMPERE	2560	80	20	4	192	8,25	8	1117 MHz/1612 MHz	3	82mm X 70mm	3.1	A	60	-
<b>A4500</b>	AMPERE	5888	184	46	16	512	17,66	16	930 MHz/1500 MHz	3	82mm X 105mm	3.1	B+	115	V
<b>T1000</b>	TURING	896	56	32	4	192	2,7	16	1395 MHz/1455 MHz	3	82mm X 70mm	3.1	A	50	-
<b>RTX3000</b>	TURING	1920	240	30	6	336	5,3	16	945 MHz/1380 MHz	3	82mm X 105mm	3.1	B	80	-

## TYPE



Type A



Type B  
Type B+

## IDEAL FOR



Image processing



Inspection



Transportation



Smart manufacturing



Medical Imaging

## PRODUCTS

	MODEL	FEATURES
<p>Enabling an Intelligent Planet</p>	<p><b>AIMB-288E</b></p>	<p>THIN AI Motherboard 12/13/14th Gen Intel® Core™ Processor (Alder Lake), MXM GPU module Integration</p>
	<p><b>AIR-310</b></p>	<p>MXM GPU Edge AI System with Intel® Core™ 14th gen processors i3/i5/i7/i9 LGA1700</p>



## NEURAL NETWORK ACCELERATOR | VERY LOW POWER | INFERENCE ON EDGE APPLICATION

ACCELERATION MODULE	FORM FACTOR	INT8 PEAK PERFORMANCE	PC-EXPRESS LANES	PCI-EXPRESS GEN	POWER CONSUMPTION	WORKING TEMPERATURE
Hailo-8™ VPU M.2 AI Acceleration Module	M.2 A+E Key 2230	26 TOPS	2	3	2,5 W	-40~85°C
Hailo-8™ VPU M.2 AI Acceleration Module	M.2 M Key 2242/2260/2280	27 TOPS	2	3	2,5 W	-40~85°C
Hailo-8™ VPU M.2 AI Acceleration Module	M.2 B+M Key 2242/2260/2280	28 TOPS	2	3	2,5 W	-40~85°C

## PRODUCTS

	MODEL	FEATURES	MODEL	FEATURES
	<b>Nuvo-9531</b>	Intel® 13th/12th -Gen Core™ i9/ i7/ i5/ i3 Compact Fanless Computer with 4x 2.5GbE, 4x USB3.2 and 1x Hot-swappable HDD Tray	<b>Nuvo-2700DS</b>	AMD Ryzen™ V1605B Rugged 4x 4K Interactive Digital Signage System Supporting 2x Google Edge TPU
	<b>AIR-150</b>	26 TOPS AI Inference System Intel 13th Gen. with Hailo-8 AI	<b>ARK-1250L</b>	Intel® 11th gen Core™ i processor with Triple LAN/ Quadruple COM Din-Rail Fanless Box PC

ACCELERATION MODULE	BASE CLOCK	GPU MEMORY	BANDWIDTH (GB/s)	FP32 Performance (TFLOPS)	POWER CONSUMPTION	PC-EXPRESS LANES	PCI-EXPRESS GEN	DIMENSIONS (L X H)	SLOT
Intel Arc A380E	2000 MHz	6	186	5,018	75	8	4	152 mm X 110 mm	2
Intel Arc A370M	1550MHz	4	112	4,198	60	8	4	168 mm X 110 mm	2

## PRODUCTS

	MODEL	FEATURES
	<b>NUVO-9166GC</b>	Ruggedized Edge AI Inference Computer supporting NVIDIA® L4 GPU and Intel® 13th/12th-Gen Core™ processor with dual PCIe slots
	<b>ARK-7000</b>	Intel® 2nd Gen. Xeon® D-1700 Extreme Performance Box PC with 3 Expansion Slots
	<b>QUANTUM-R</b>	Quantum-R4 - Rack Mount Industrial PC. 8th and 9th generation Rack Mount solution.



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