









ADVANCED TECHNOLOGIES

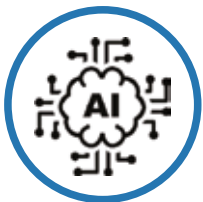


Unlock
the Power of AI
Neural Network Solutions

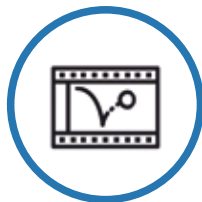
HIGH PERFORMANCE | MULTI GPU SOLUTIONS | OPTIMIZED FOR TRAINING AND INFERENCE

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	
A6000 ADA DS: 48GB 300W PCIe Gen4 	18176	568	142	48	960	91,1	210,6	1457	111,76mm X 266,7mm	2	FULL	300
A5000 ADA DS: 32GB 250W PCIe Gen4 	12800	400	100	32	576	65,3	151	1044,4	111,76mm X 266,7mm	2	FULL	250
A4500 ADA DS: 24GB 210W PCIe Gen4 	7680	240	60	24	432	39,6	91,6	634	111,76mm X 266,7mm	2	FULL	210
A4000 ADA SS: 20GB 130W PCIe Gen4 	6144	192	48	20	360	26,7	61,8	327,6	111,76mm X 266,7mm	1	FULL	130
A4000 ADA SFF 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
A2000 ADA 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
	 10108GC	Industrial Edge AI Computer Supporting Single 350W NVIDIA® RTX™ GPU, Intel® 13th/ 12th-Gen Core™ Processor with Three Additional PCIe Slots	 10208GC	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
	 EPC-B3000	EPC-B3000 Series is a 3U System for Micro-ATX Motherboards with up to 4 PCIe Expansion Slots	 EPC-B5000	EPC-B5000 Series 4U System for Micro-ATX Motherboards with up to 4 PCIe Expansion Slots
	 QUANTUM-R	Quantum-R - Rack Mount Industrial PC Up to latest CPU generation Multi GPU	 QUANTUM-W	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	BANDWIDHT (GB/s)	MAX CAMERA SUPPORTED	ETHERNET CONNECTION	CSI CAMERA	
Nano	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
TX2	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
AGX Xavier	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
Xavier NX	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
AGX Orin	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
Orin Nano	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
	NRU-220S NRU-222S		Rugged AI NVR	NVIDIA® Jetson AGX Orin™ AI NVR for Intelligent Video Analytics
	NRU-52S+ NRU-52S		Rugged AI NVR	Rugged NVIDIA® Jetson Orin™ NX/ Xavier™ NX Edge AI Computer with 4x PoE++ Ports for Intelligent Video Analytics
	NRU-120S		Rugged AI NVR	NVIDIA® Jetson AGX Xavier™ AI NVR Fanless Computer for Intelligent Video Analytics
	NRU-51V+ NRU-51V		GMSL Camera Sensor Hub	Rugged NVIDIA® Jetson Orin™ NX/ Xavier™ NX GMSL2 Camera Sensor Hub for Autonomous Vehicles and Teleoperation
	NRU-110V		GMSL Camera Sensor Hub	NVIDIA® Jetson AGX Xavier™ Edge AI Fanless Computer Supporting 8x GMSL Automotive Cameras & 10G Ethernet
	PCIe-GL26		GMSL Camera Sensor Hub	Xavier™ NX AI-enabled 6-port GMSL2 Camera Frame Grabber Card
	PCIe-NX156U3		Intelligent frame grabber	Orin™ NX 100 TOPS Intelligent Frame Grabber Card with 6x USB 3.2 ports for AI Inspection
	PCIe-NX156U3		Intelligent frame grabber	Orin™ NX 100 TOPS Intelligent Frame Grabber Card with 4x PoE+ ports for IVA or AI Inspection

HIGH PERFORMANCE | COMPACT SOLUTION | LOW POWER | 5 YEARS LONGEVITY

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

TYPE



Type A



Type B
Type B+

IDEAL FOR



Image processing



Inspection



Transportation



Smart manufacturing



Medical imaging

PRODUCTS

	MODEL	FEATURES
<p>ADANTECH <small>Enabling an Intelligent Planet</small></p>	<p>AIMB-288E</p>	<p>THIN AI Motherboard 12/13/14th Gen Intel® Core™ Processor (Alder Lake), MXM GPU module Integration</p>
	<p>AIR-310</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
	Nuvo-9531	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	Nuvo-2700DS	AMD Ryzen™ V1605B Rugged 4x 4K Interactive Digital Signage System Supporting 2x Google Edge TPU
	AIR-150	26 TOPS AI Inference System Intel 13th Gen. with Hailo-8 AI	ARK-1250L	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
	NUVO-9166GC	Ruggedized Edge AI Inference Computer supporting NVIDIA® L4 GPU and Intel® 13th/12th-Gen Core™ processor with dual PCIe slots
	ARK-7000	Intel® 2nd Gen. Xeon® D-1700 Extreme Performance Box PC with 3 Expansion Slots
	QUANTUM-R	Quantum-R4 - Rack Mount Industrial PC. 8th and 9th generation Rack Mount solution.



ADVANCED TECHNOLOGIES

ADVANCED TECHNOLOGIES S.p.A.

via Gioberti, 3 - 20090 Trezzano S/N (MI)

Tel. +39.02.87021420 | Email infocom@adv-tech.it

adv-tech.it