



AutonomouStuff Spectra

Introduction

The AutonomouStuff Spectra is a rugged GPU Computing edge AI platform with industrial-grade design and in-vehicle features. Designed specifically to support a high-end 250W NVIDIA® graphics card, it offers tremendous GPU power up to 14 TFLOPS in FP32 for emerging GPUaccelerated edge computing, such as autonomous driving, vision inspection and surveillance/security.



Features

- Intel® Core™ i9 Processor
- 64GB DDR4-2666Mhz SODIMM (2X32GB)
- (1) 512GB M.2 2280 Solid State Drive Primary
- (1) 1TB 2.5" SATA III Solid State Drive
- (1) RTX Quadro A-4000 GPU
- Supports 250W RTX Quadro A-4000
- Supports 8th/9th-Gen Intel® Core™ i7/i5 LGA1151, Xeon® E
- Up to 128GB ECC/non-ECC DDR4 2133 (4x SODIMM)

- Two x16 (8-lanes), two x8 (4-lanes), Gen3 PCIe slots
- 1x M.2 M key, 1x M.2 B key and 2x full-size mini-PCIe sockets
- 1x hot-swappable HDD tray for 2.5" HDD/ SSD installation
- 12-48V wide-range DC input with ignition control
- Operating temperature range: -25°C to 60°C
- Up to 3Grms vibration

Specifications

System core

Processor	Intel® Core™ i9 Processor
Memory	Up to 128 GB ECC/non-ECC DDR4 2133 SDRAM (four
	SODIMM slots)
Graphics	Independent GPU via x16 PEG port, or integrated
	Intel® UHD Graphics 630
Chipset	Intel® C246 Platform Controller Hub
AMT	Supports AMT 12.0
TPM	Supports TPM 2.0

I/O interface

Ethernet	1× Gigabit Ethernet port by Intel® 1219-LM
	1× Gigabit Ethernet port by Intel® 1210-IT
Native video port	1× VGA connector, supporting 1920×1200 resolution
	1×DVI-D connector, supporting 1920×1200 resolution
	1× DisplayPort connector, supporting 4096×2304
	resolution
Serial port	2× software-programmable RS-232/422/485 ports
USB	4× USB 3.1 Gen2 (10 Gbps) ports
	4× USB 3.1 Gen1 (5 Gbps) ports
	1× USB 2.0 ports (internal for dongle use)
Audio	1×3.5.mm jack for mic-in and speaker-out

Expansion BUS / internal I/O interface

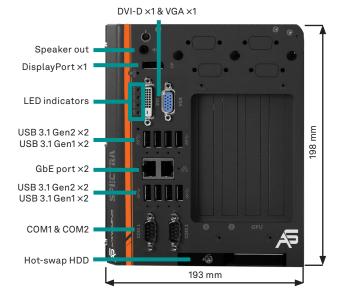
PCI express	2× PCIe x16 slot@Gen3, 8-lanes
	2× PCIe x8 slot @ Gen3, 4-lanes
M.2	1× M.2 2242 B key socket supporting dual SIM mode
	with selected M.2 LTE module
mini-PCle	2× full-size mini PCI Express socket

Power supply

DC input 2× 4-pin pluggable terminal block for 8~48 VDC input with ignition control

Mechnical	
Dimensions	170mm (W) × 360mm (D) × 198mm (H)
Weight	5 kg
Mounting	Wall-mounting with damping bracket
Environmental	
Operating temp.	with 35W CPU and one NVIDIA® 250W GPU: -25°(60°C ***
	with >= 65W CPU and one NVIDIA® 250W GPU:
	-25°C ~ 60°C **/*** (configured as 35W TDP mod
	-25°C ~ 50°C **/*** (configured as 65W TDP mod
Storage temp.	-40°C - 85°C
Humidity	10% ~ 90%, non-condensing
Vibration	Operating, MIL-STD-810G, Method 514.6, Catego
	4; and 3 Grms, 5-500 Hz, 3 Axes
Shock	Operating, MIL-STD-810G, Method 516.6, Proced
	I, Table 516.6-II
EMC	CE/FCC Class A, according to EN 55024 & EN 550
Storage interfa	ce
SATA	1x hot-swappable HDD tray for 2.5" HDD/ SSD
	installation
	1x Internal SATA port for 2.5" HDD/ SSD installati
	supporting RAID 0/1
M.2	1x M.2 2280 M key socket (PCIe Gen3 x4) for NVM
	SSD or Intel® Optane™ memory installation
mSATA	2x full-size mSATA port (mux with mini-PCIe)

higher operating temperature. *** For sub-zero operating temperature, a wide temperature HDD or Solid State Disk (SSD) is required.





Contact Hexagon | AutonomouStuff

info.as.ap@hexagon.com +1 309.291.0966

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