



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 GPU-accelerated edge computing, such as autonomous driving, vision inspection and surveillance/security.



Features

- Intel® Core™ i9 Processor
- 64GB DDR4-2666Mhz SODIMM (2X16GB)
- (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-PCle 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)

Independent GPU via x16 PEG port, or integrated Graphics

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

Mounting Wall-mounting with damping bracket

Environmental

with 35W CPU and one NVIDIA® 250W GPU: -25°C ~ Operating temp.

60°C ***

with >= 65W CPU and one NVIDIA® 250W GPU: -25°C ~ 60°C **/*** (configured as 35W TDP mode) -25°C ~ 50°C **/*** (configured as 65W TDP mode)

Storage temp. -40°C - 85°C

Humidity 10% ~ 90%, non-condensing

Vibration Operating, MIL-STD-810G, Method 514.6, Category

4; and 3 Grms, 5-500 Hz, 3 Axes

Operating, MIL-STD-810G, Method 516.6, Procedure Shock

I, Table 516.6-II

FMC CE/FCC Class A, according to EN 55024 & EN 55032

Storage interface

SATA 1x hot-swappable HDD tray for 2.5" HDD/ SSD

installation

1x Internal SATA port for 2.5" HDD/ SSD installation,

supporting RAID 0/1

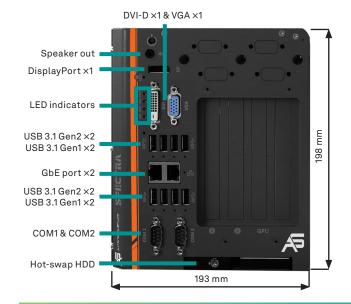
M.2 1x M.2 2280 M key socket (PCle Gen3 x4) for NVMe

SSD or Intel® Optane™ memory installation

mSATA 2x full-size mSATA port (mux with mini-PCIe)

** For i7-8700 and i7-9700E running at 65W mode, the highest operating temperature shall be limited to 50°C and thermal throttling may occur when sustained full-loading applied. Users can configure CPU power in BIOS to obtain higher operating temperature.

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





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