

Nuvo-5095GC

Compact and Wide-Temperature GPU-Computing Platform Supporting 75W NVIDIA® GPU and Intel® 6th-Gen Core™ Processor



Key Features

- · Supports NVIDIA® GPU with up to 75W TDP
- · Patented thermal design to allow -25°C to 60°C wide-temperature system operation
- Supports Intel[®] 6th-Gen Core[™] i7/i5 LGA1151 CPU
- · 6x GigE ports, supporting 9.5 KB jumbo frame
- · Up to 32 GB, DDR4-2133 SO-DIMM
- · 240 mm x 225 mm x 111 mm compact footprint
- · Compatible with MezIO™ interface for function expansion
- · Accommodates two 2.5" SATA HDD/SSD with RAID 0/1 support
- · Patented ventilation vent* for graphic card

*R.O.C Patent No. M534371 / M456527

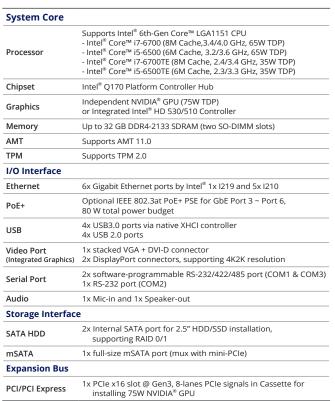
Introduction

Nuvo-5095GC opens a new chapter for industrial computers. As the first embedded controller targeting at emerging applications of CUDA computing, autopilot, deep learning and virtual reality, Nuvo-5095GC integrates all features required for a compact, reliable and powerful GPUcomputing platform.

Supporting 75W NVIDIA® GPU (e.g. GTX 1050 Ti), Nuvo-5095GC possesses 768 CUDA cores to deliver tremendous computing power for arithmetic/ graphics operations. Neousys' patented Cassette technology and innovative thermal design help to effectively dissipate the heat generated by GPU, thus make this compact system capable of operating reliably at 60°C with 100% GPU loading.

Nuvo-5095GC is based on Intel® Skylake platform, supports 35W/65W 6th-Gen Core™ processors and up to 32GB DDR4 memory. It offers rich I/O functions, such as GbE, USB 3.0 and COM ports, to connect external devices. All these extraordinary features are integrated into a very compact, 240 x 225 x 111 mm footprint. For fast-growing GPU-computing applications, Nuvo-5095GC presents the first industrial-grade, compact and rugged platform incorporating CPU and GPU to offer performance far beyond traditional industrial computers.

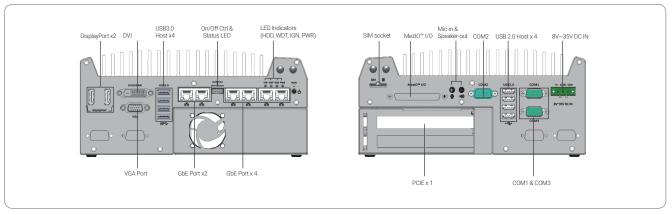
Specifications



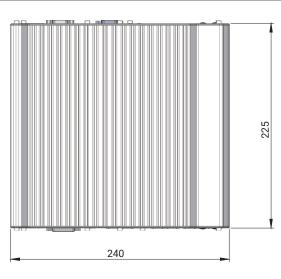
Expansion Bus			
Mini PCI-E	1x internal mini PCI Express socket with front-accessible SIM socket 1x internal mini PCI Express socket with internal SIM socket (mux with mSATA)		
Expandable I/O	1x MezlO™ expansion port for Neousys' MezlO™ modules		
Power Supply			
DC Input	1x 3-pin pluggable terminal block for 8~35VDC DC input		
Remote Ctrl. & Status Output	1x 10-pin (2x5) wafer connector for remote on/off control and status LED output		
Mechanical			
Dimension	240 mm (W) x 225 mm (D) x 111 mm (H)		
Weight	4.8 kg (incl. CPU, GPU, memory and HDD)		
Mounting	Wall-mount by mounting bracket		
Environmental			
Operating Temperature	with i7-6700TE , i5-6500TE (35W TDP) -25°C ~ 60°C ** with i7-6700 , i5-6500 (65W TDP) -25°C ~ 60°C **/*** (configured as 35W CPU mode) -25°C ~ 50°C **/*** (configured as 65W CPU mode)		
Storage Temperature	-40°C ~ 85°C		
Humidity	10%~90%, non-condensing		
Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)		
Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)		
EMC	CE/ FCC Class A, according to EN 55022, EN 55024 & EN 55032		
** The high operating ten using TessMark x64 GPU	CE/ FCC Class A, according to EN 55022, EN 55024 & EN 55032 perature specified here is defined under the condition of 100% GPU loading applied stress test. For detail testing criteria, please contact Neousys Technology temperature, a wide temperature HDD drive or Solid State Disk (SSD) is		

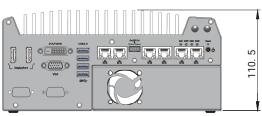


Appearance



Dimensions





Unit: mm

Ordering Information

Model No.	Product Description	
Nuvo-5095GC	Intel® 6th-Gen Core™ GPU-computing platform with 6x GbE and MezlO™, supporting selected 75W NVIDIA® GPU	
Option of 802.3at PoE+ for G	ption of 802.3at PoE+ for GbE ports 3 ~ 6	

Optional Accessories

PA-160W-OW	160W AC/DC power adapter 20V/8A;18AWGx4C/120cm, cord end terminals for terminal block, operating temperature: -30 to 70 °C.				
Fan-40	Fan assembly for 2-slot Cassette, 40x40x10 mm				
MezIO™ Modu	les				
MezIO [™] -C180	MezIO [™] module with 4x RS-232/ 422/ 485 ports and 4x RS-232 ports	MezIO [™] -V20-EP	MezIO™ module with ignition power control function for in-vehicle application		
MezIO [™] -C181	MezIO™ module with 4x RS-232/ 422/ 485 ports and 4x RS-422/ 485 ports	MezIO [™] -U4	MezIO™ module with 4x USB3.0 ports		
MezIO [™] -D220	MezIO™ module with 8-CH isolated digital input and 8-CH isolated digital output	MezIO [™] -G4	MezIO™ module with 4x GigE ports		
MezIO [™] -D230	MezlO™ module with 16-CH isolated digital input and 16-CH isolated digital output	MezIO [™] -G4P	MezIO™ module with 4x IEEE 802.3at PoE ports		