



# uvo-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\* for graphics card

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

#### Introduction

Nuvo-5095GC opens a new chapter for industrial computers. As the first embedded controller targeted at emerging applications of CUDA computing, autopilot, deep learning and virtual reality, Nuvo-5095GC integrates all features required for a compact, reliable and powerful GPU computing 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 the GPU, thus making this compact system capable of operating reliably at 60°C with 100% GPU loading.

Nuvo-5095GC is based on Intel® Skylake platform that 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 to 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.

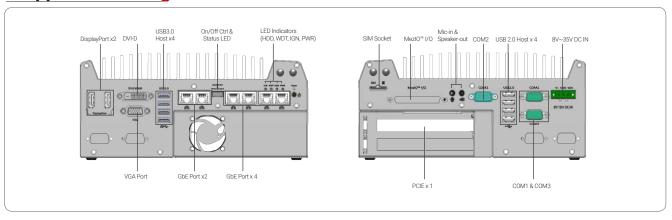
### **Specifications**

System Core			
Processor	Supports Intel <sup>®</sup> 6th-Gen Core™ LGA1151 CPU - Intel <sup>®</sup> Core™ 17-6700 (8M Cache, 3.4/4.0 GHz, 65W TDP) - Intel <sup>®</sup> Core™ 15-6500 (6M Cache, 3.2/3.6 GHz, 65W TDP) - Intel <sup>®</sup> Core™ 17-6700TE (8M Cache, 2.4/3.4 GHz, 35W TDP) - Intel <sup>®</sup> Core™ 15-6500TE (6M Cache, 2.3/3.3 GHz, 35W TDP)		
Chipset	Intel <sup>®</sup> Q170 platform controller hub		
Graphics	Independent NVIDIA® GPU (75W TDP) or integrated Intel® HD 530/510 controller		
Memory	Up to 32 GB DDR4-2133 SDRAM (two SO-DIMM slots)		
AMT	Supports AMT 11.0		
TPM	Supports TPM 2.0		
I/O Interface			
Ethernet	6x Gigabit Ethernet ports by Intel® 1x I219 and 5x I210		
PoE+	Optional IEEE 802.3at PoE+ PSE for GbE Port 3 ~ Port 6, 80 W total power budget		
USB	4x USB3.0 ports via native XHCl controller 4x USB 2.0 ports		
Video Port (Integrated Graphics)	1x stacked VGA + DVI-D connector 2x DisplayPort connectors, supporting 4K2K resolution		
Serial Port	2x software-programmable RS-232/422/485 port (COM1 & COM3 1x RS-232 port (COM2)		
Audio	1x Mic-in and 1x Speaker-out		
Storage Interface	e		
SATA HDD	2x internal SATA port for 2.5" HDD/SSD installation, supporting RAID 0/1		
mSATA	1x full-size mSATA port (mux with mini-PCle)		
Expansion Bus			
PCI/PCI Express	1x PCle x16 slot @ Gen3, 8-lanes PCle signals in Cassette for installing 75W NVIDIA® GPU		

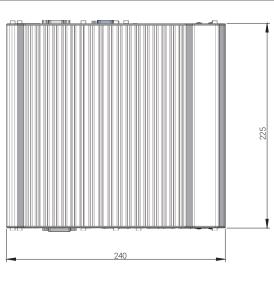
Expansion Bus			
Mini PCI-E	1x internal mini PCI Express socket with front-accessible SIM socket 1x internal mini PCI Express socket with internal SIM socket (mux with mSATA)		
Expandable I/O	1x MezlO™ expansion port for Neousys' MezlO™ modules		
Power Supply			
DC Input	1x 3-pin pluggable terminal block 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	4.5 kg (incl. CPU, GPU, memory and HDD)		
Mounting	Wall-mount bracket		
Environmental			
Operating Temperature	with <b>i7-6700TE</b> , <b>i5-6500TE</b> (35W TDP) -25°C ~ 60°C ** with <b>i7-6700</b> , <b>i5-6500</b> (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		



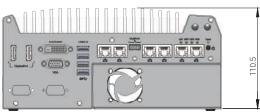
### **Appearance**



### **Dimensions**



Unit: mm



# **Ordering Information**

Model No.	Product Description
Nuvo-5095GC	Intel <sup>®</sup> 6th-Gen Core™ GPU-computing platform with 6x GbE and MezlO <sup>™</sup> interface, supporting selected 75W NVIDIA <sup>®</sup> GPU
Optional IEEE 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.				
MezIO™ Modules					
MezIO <sup>™</sup> -C180	MezIO™ module with 4x RS-232/ 422/ 485 ports and 4x RS-232 ports	MezIO <sup>™</sup> -V20-EP	MezIO™ module with ignition power control function for in-vehicle application		
MezIO <sup>™</sup> -C181	MezIO™ module with 4x RS-232/ 422/ 485 ports and 4x RS-422/ 485 ports	MezIO <sup>™</sup> -U4	MezIO™ module with 4x USB3.0 ports		
MezIO <sup>™</sup> -D220	MezIO™ module with 8-CH isolated digital input and 8-CH isolated digital output	MezIO <sup>™</sup> -G4	MezIO™ module with 4x GigE ports		
MezIO <sup>™</sup> -D230	MezlO™ module with 16-CH isolated digital input and 16-CH isolated digital output	MezIO <sup>™</sup> -G4P	MezIO™ module with 4x IEEE 802.3at PoE+ ports		

Only Nuvo-5095GC-PoE supports MezIO-G4P