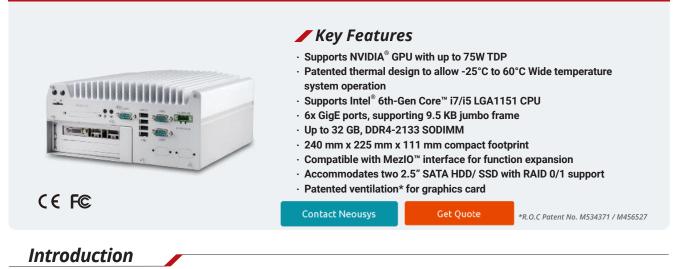


# Nuvo-5095GC

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



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<sup>®</sup> 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.

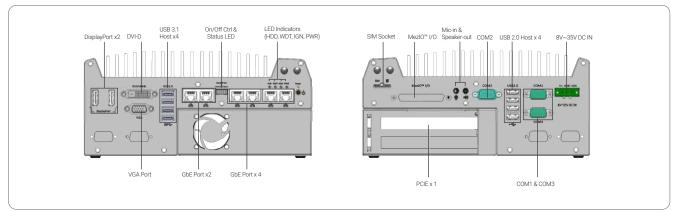
Nuvo-5095GC is based on Intel<sup>®</sup> Skylake platform that supports 35W/ 65W 6th-Gen Core<sup>™</sup> processors and up to 32GB DDR4 memory. It offers rich I/O functions, such as GbE, USB 3.1 and COM ports to connect to external devices. All these extraordinary features are integrated into a very 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

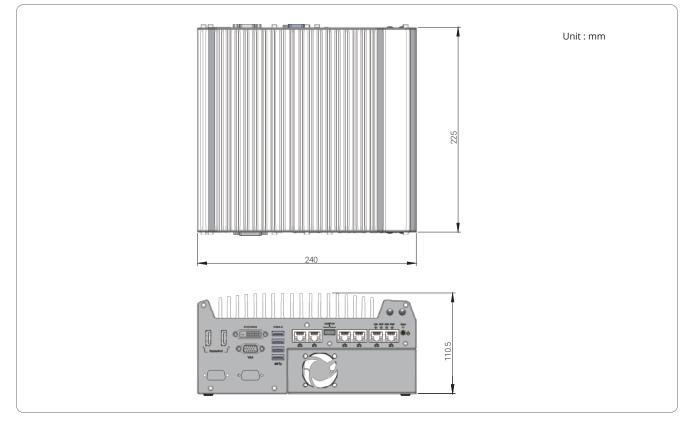
System Core		<b>Expansion Bus</b>		
Processor	Supports Intel <sup>®</sup> 6th-Gen Core <sup>™</sup> LGA1151 CPU - Intel <sup>®</sup> Core <sup>™</sup> i7-6700 (8M Cache, 3.4/4.0 GHz, 65W TDP) - Intel <sup>®</sup> Core <sup>™</sup> i5-6500 (6M Cache, 3.2/3.6 GHz, 65W TDP) - Intel <sup>®</sup> Core <sup>™</sup> i5-6500TE (8M Cache, 2.4/3.4 GHz, 35W TDP) - Intel <sup>®</sup> Core <sup>™</sup> i5-6500TE (6M Cache, 2.3/3.3 GHz, 35W TDP)	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 <sup>™</sup> expansion port for Neousys' MezlO <sup>™</sup> modules	
Chipset	Intel <sup>®</sup> Q170 platform controller hub	Power Supply		
Graphics	Independent NVIDIA <sup>®</sup> GPU (75W TDP) or integrated Intel <sup>®</sup> HD 530/510 controller	DC Input	1x 3-pin pluggable terminal block for 8~35VDC DC input	
		Remote Ctrl. &	1x 10-pin (2x5) wafer connector for remote on/off control and status LED output	
Memory	Up to 32 GB DDR4-2133 SDRAM (two SODIMM slots)	Status Output	remote on/on control and status LED output	
AMT	Supports AMT 11.0	Mechanical		
TPM	Supports TPM 2.0	Dimension	240 mm (W) x 225 mm (D) x 111 mm (H)	
I/O Interface		Weight	4.5 kg (incl. CPU, GPU, memory and HDD)	
Ethernet	6x Gigabit Ethernet ports by Intel <sup>®</sup> 1x I219 and 5x I210	Mounting	Wall-mount (standard) or DIN-rail mount (optional)	
PoE+	Optional IEEE 802.3at PoE+ PSE for GbE Port 3 ~ Port 6,	Environmental		
	80 W total power budget		with <b>i7-6700TE</b> , <b>i5-6500TE</b> (35W TDP)	
USB 3.1	4x USB 3.1 ports via native XHCl controller	Operating	-25°C ~ 60°C ** with <b>i7-6700, i5-6500</b> (65W TDP)	
USB 2.0	4x USB 2.0 ports	Temperature	$-25^{\circ}$ C ~ 60^{\circ}C **/*** (configured as 35W CPU mode)	
Video Port	1x stacked VGA + DVI-D	-2	-25°C ~ 50°C **/*** (configured as 65W CPU mode)	
(Integrated Graphics)	2x DisplayPorts, supporting 4K2K resolution	Storage	-40°C ~ 85°C	
Serial Port	2x software-programmable RS-232/422/485 port (COM1 & COM3)	Temperature		
	1x RS-232 port (COM2)	Humidity	10%~90% , non-condensing	
Audio	1x Mic-in and 1x Speaker-out	Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)	
Storage Interfac	e		, ,	
SATA HDD	2x internal SATA port for 2.5" HDD/ SSD installation, supporting RAID 0/1	Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)	
mSATA	1x full-size mSATA port (mux with mini-PCle)	EMC	CE/ FCC Class A, according to EN 55022, EN 55024 & EN 55032	
Expansion Bus		* For i7-6700 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		
PCI/PCI Express	1x PCIe x16 slot @ Gen3, 8-lanes PCIe signals in Cassette for installing 75W NVIDIA <sup>®</sup> GPU	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 drive or Solid State Disk (SSD) is required.		



#### Appearance



#### Dimensions



#### **Ordering Information**

 Model No.
 Product Description

 Nuvo-5095GC
 Intel® 6th-Gen Core™ GPU-computing platform with 6x GbE and MezIO™ interface, supporting selected 75W NVIDIA® 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.

<i>MezIO™ Modules</i>				
MezIO <sup>™</sup> -C180	MezlO™ module with 4x RS-232/ 422/ 485 ports and 4x RS-232 ports	MezIO <sup>™</sup> -V20-EP	MezIO <sup>™</sup> module with ignition power control functior for in-vehicle application	
MezIO <sup>™</sup> -C181	MezlO™ module with 4x RS-232/ 422/ 485 ports and 4x RS-422/ 485 ports	MezIO <sup>™</sup> -U4	MezIO <sup>™</sup> module with 4x USB 3.1 ports	
MezIO <sup>™</sup> -D220	MezIO <sup>™</sup> module with 8-CH isolated digital input and 8-CH isolated digital output	MezIO <sup>™</sup> -G4	MezIO <sup>™</sup> module with 4x GigE ports	
MezIO <sup>™</sup> -D230	MezIO <sup>™</sup> module with 16-CH isolated digital input and 16-CH isolated digital output	MezIO <sup>™</sup> -G4P	MezIO <sup>™</sup> module with 4x IEEE 802.3at PoE+ ports	

Only Nuvo-5095GC-PoE supports MezIO-G4P