

GT-92GC

2U 19" rack mount fanless GPU computer including NVIDIA® RTX™ 2000 ADA, supporting Intel® 14th / 13th / 12th-Gen Core™ processor





- Fanless GPU computer with NVIDIA® RTX™ 2000 ADA
- · 2U 19" chassis for rack-mount or wall-mount
- · 8V to 48V wide-range DC input via M12 L-Coded connector
- · 8x GbE PoE+, 1x GbE ports via M12 X-Coded connectors
- · On-board isolated CAN bus for in-vehicle communication
- · 1x M.2 2280 M key with PCIe-Gen 4x4 for NVMe storge
- · 2x full-size mPCle sockets with internal SIM sockets
- -25°C to 55°C wide-temperature fanless operation

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Introduction

GT-92GC is a 19" rack mount, wide-temperature, fanless GPU computer that delivers excellent CPU and GPU performance by leveraging Intel® 14th/ 13th/ 12th-Gen platform and NVIDIA® RTX™ 2000 ADA. Thanks to its high-performance and flexible camera expansion, GT-92GC is ideal for multicamera applications requiring real time responses, e.g., Al inspection, robotic guidance, and autonomous machines.

GT-92GC has a proven thermal design to guarantee reliable system operation from -25°C to 55°C. It features a passive-cooling design for the motherboard and 70W GPU card. Supporting eight GigE cameras (or IP cameras) and four USB3 cameras, GT-92GC is ideal for various vision-based Al application deployments. It also provides flexible data storage options, including one M.2 2280 Gen4x4 NVMe providing up to 7000 MB/s extreme read/write speeds and two 2.5" SATA HDD/SSD to expand storage capacity.

With performance enhancements and comprehensive I/Os, GT-92GC is the perfect edge AI inference platform for industrial environments such as inspection vehicle, smart agriculture, and autonomous machines.

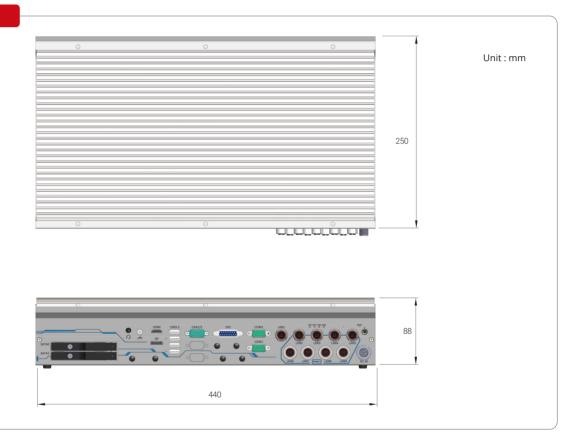
Specifications

Clear Vos socker, 6.5 w/s w/ IDA Core Pol-139000E Fol-13900TE Fol-13900TE Fol-13900TE Fol-13900TE Fol-13900E Fol-13900TE	System Core			Storage Interface	
Fintel® Core® 13-14000 15-144000 15-144000 15-14500T Intel® Core® 13-14100 15-1400T Intel® Core® 13-14100 15-1400T Intel® Core® 13-14100 15-1400T Intel® 13-1400T		- Intel [®] Core™ !9-14900/ !9-14900T - Intel [®] Core™ i5-14700/ i7-14700T - Intel [®] Core™ !5-14500/ i5-14400/ i5-14500T		SATA HDD	
Supporting Intel® 13th-Gen Core™ CPU (I.GA1700 socket, 65W 35W TDP) (I.GA1700 socket, 65W 35W 35W 35W 35W 35W 35W 35W 35W 35W 3				M.2 NVMe	1x M.2 2280 M key NVMe socket (PCIe Gen4x4) for NVMe SSD
LCAT700 socket, 65W 38W TDP -Intel® Core® i9-139000E -Intel® Core® i9-13900E -Intel® Core® i9-12900E -Intel® Core®				Internal Expansion Bus	
- Intel® Core® 19-13900E/ 19-13900E - Intel® Core® 19-12900E Power Supply - Intel® Core® 19-13900E/ 19-13900E Intel® Core® 19-12900E Intel®	Processor	(LGÁ1700 socket, 65W/ 35W TDP) - Intel® Core™ j9-13900E - Intel® Core™ j7-13700E/ j7-13700TE - Intel® Core™ i5-13500E/ i5-13400E/ i5-13500TE - Intel® Core™ i3-13100E/ i3-13100TE	(LGA1700 socket, 65W/ 35W TDP) - Intel® Core™ I9-12900E/ I9-12900TE - Intel® Core™ I7-12700E/ I7-12700TE - Intel® Core™ I5-12500E/ I5-12500TE - Intel® Core™ I3-12100E/ I3-12100TE - Intel® Core™ I3-12100E/ G7400TE	Mini PCI Express	2x full-size mini PCI Express socket with SIM slot
-Intel® Core® i3-1300E / i5-1360E / i5-12500E / intel® Core® i3-13100E / intel® Core® i3-12100E / intel® i3-12100E				Power Supply	
Intel® Core™ i3-13100E/ i3-13100TE Intel® Pentium® G7400E/ G7400TE Intel® R680E platform controller hub				DC Input	8V to 48V DC input (M12 L-coded)
Mechanical Dimension 440mm (W) x 250mm (D) x 88mm (H) (excl. rack-mount bracket) Acceleration GPU NVIDIA® RTX™ 2000 ADA Memory Up to 64 GB ECC/ non-ECC DDR5 4800 SDRAM (two SODIMM slots) AMT Supports Intel vPro/ AMT 16.0 TPM Supports dTPM 2.0 //O Interface Ethernet 1x GBE Ethernet by Intel 1219-LM via M12 x-coded connector(with WoL) 8x GBE Ethernet by Intel 1350-AM4 via M12 x-coded connectors AND Experimental String Rick—Box 3at PGE+ PSE with - with 70 W total power budget (1/102V vehicle power input) - with 100 W total power budget (24V vehicle power input) - with 100 W total power budget (24V vehicle power input) All SBB 4x USB 3.2 Gen2x1 (10 Gbps) ports in type-A connectors All GBO POrt 1x HDMI 1.4, supporting 4096 x 2304 resolution 1x DisplayPort, supporting 4096 x 2304 resolution 1x DisplayPort, supporting 4096 x 2304 resolution 1x DisplayPort, supporting 4096 x 2304 resolution 2x Solated DIO - CH isolated DI and 4-CH isol				Ignition Control	Built-in ignition power control
Dimension 440mm (W) x 250mm (D) x 88mm (H) (excl. rack-mount bracket) Weight 7.7 kg Mounting Rack-mounting (optional) and wall-mounting (optional) Environmental Ethernet 1x GbE Ethernet by Intel I219-LM via M12 x-coded connectors Ethernet 2x GbE Ethernet by Intel I219-LM via M12 x-coded connectors Ethernet 2x GbE Ethernet by Intel I219-LM via M12 x-coded connectors Ethernet 2x GbE Ethernet by Intel I219-LM via M12 x-coded connectors Ex GBE Ethernet by Intel I219-LM via M12 x-coded connectors Ethernet 2x GbE Ethernet by Intel I219-LM via M12 x-coded connectors Ex GBE	Chinsot			Mechanical	
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Memory Up to 64 GB ECC/ non-ECC DDR5 4800 SDRAM (two SODIMM slots) AMT Supports Intel vPro/ AMT 16.0 PPM Supports dTPM 2.0 Support dTPM 2.0 Supports dTPM 2.0 Supports dTPM 2.0 Supports dTPM 2.0 Supports dTPM 2.0 Support dTPM	· · · · · · · · · · · · · · · · · · ·	· · · · · · ·		Weight	7.7 kg
Supports Intel vPro/ AMT 16.0 FPM Supports dTPM 2.0 /O Interface Sthernet 1x GBE Ethernet by Intel I219-LM via M12 x-coded connector(with WoL) 8x GBE Ethernet by Intel I2350-AM4 via M12 x-coded connectors Stepper 1x GBE Ethernet by Intel I219-LM via M12 x-coded connectors 8x IEEE 802.3at PoE+ PSE with - with 70 W total power budget (24V vehicle power input) - with 100 W total power budget (24V vehicle power input) - with 100 W total power budget (24V vehicle power input) FAN Bus 2x isolated CAN 2.0 port, supporting SocketCAN in Linux FINAL BLANCE STATE STAT				Mounting	Rack-mounting (optional) and wall-mounting (optional)
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Supports dTPM 2.0 Operating Temperature 1x GbE Ethernet by Intel I219-LM via M12 x-coded connector(with WoL) 8x GbE Ethernet by Intel I350-AM4 via M12 x-coded connectors PoE+ with 70 W total power budget (1219 vehicle power input) - with 100 W total power budget (24V vehicle power input) - with 100 W total power budget (24V vehicle power input) JSB 4x USB 3.2 Gen2x1 (10 Gbps) ports in type-A connectors 1x HDMI 1.4, supporting 4096×2160 resolution 1x DisplayPort, supporting 4096 x 2304 resolution 2x isolated 3-wire RS232/ 422/ 485 port (COM1/ COM2) Solated DIO 4-CH isolated DI and 4-CH isolated DO Operating Temperature -25°C ~ 55°C (3) (with out PoE) with 65W CPU -25°C ~ 35°C (213) (with poE 50W) with 65W CPU -25°C ~ 35°C (213)					with 35W CPLI
Temperature 1x GbE Ethernet by Intel I219-LM via M12 x-coded connector(with WoL) 8x GbE Ethernet by Intel I350-AM4 via M12 x-coded connectors 8x IEEE 802.3at PoE+ PSE with - with 70 W total power budget "(12V vehicle power input) - with 10 W total power budget (24V vehicle power input) - with 10 W total power budget (24V vehicle power input) - with 10 W total power budget (24V vehicle power input) - with 10 W total power budget (24V vehicle power input) - with 10 W total power budget (24V vehicle power input) - with 10 W total power budget (24V vehicle power input) - with 10 W total power budget (24V vehicle power input) - with 10 W total power budget (24V vehicle power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power budget (10 Sobre power input) - with 10 W total power input sobre power input) - with 10 W total power input sobre power input) - with 10 W total power input sobre power input) - with 10 W total power input sobre power input) - with 10 W total power input sobre power input) - with 10 W total power input sobre power input sob		Supports dTPM 2.0			-25°C ~ 55°C (3) (without PoE)
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- with 70 W total power budget (1) (12V vehicle power input) - with 100 W total power budget (24V vehicle power input) - with 100 W total power budget (24V vehicle power input) EAN Bus	Ethernet			remperature	
AN Bus 2x isolated CAN 2.0 port, supporting SocketCAN in Linux Vibration EN 50155:2017/ IEC 61373, Category I, Class B - Body mounted Shock EN 50155:2017/ IEC 61373, Category I, Class B - Body mounted Shock EN 50155:2017/ IEC 61373, Category I, Class B - Body mounted Shock EN 50155:2017/ IEC 61373, Category I, Class B - Body mounted Shock EN 50155:2017/ IEC 61373, Category I, Class B - Body mounted EMC EN 50121 (EN 50155 EMC) (E/FCC Class A, according to EN 55032 & EN 55035 (I) The 12V vehicle power input system imposes a strict limit of 70W on the PoE power budget due to tourrent draw caused by the voltage drop to 8V. (I) For 65W CPUs, the recommended DC input range is 18V to 48V.	PoE+	- with 70 W total power budget [1] (12V vehicle power input)			-40°C to 85°C
Vibration EN 50155:2017/ IEC 61373, Category I, Class B - Body mounted Shock EN 50155:2017/ IEC 61373, Category I, Class B - Body mounted Shock EN 50155:2017/ IEC 61373, Category I, Class B - Body mounted Shock EN 50155:2017/ IEC 61373, Category I, Class B - Body mounted EMC EN 50121 (EN 50155 EMC) CE/FCC Class A, according to EN 55032 & EN 55035 Solated DIO 4-CH isolated DI and 4-CH isolated DO [1] The 12V vehicle power input system imposes a strict limit of 70W on the PoE power budget due to to current draw caused by the voltage drop to 8V. [2] For 65W CPUs, the recommended DC input range is 18V to 48V.	CAN Bus			Humidity	10% to 90% , non-condensing
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1x DisplayPort, supporting 4096 x 2304 resolution EMC EN 50121 (EN 50155 EMC) CE/FCC Class A, according to EN 55032 & EN 55035 [1] The 12V vehicle power input system imposes a strict limit of 70W on the PoE power budget due to a current draw caused by the voltage drop to 8V. [2] For 65W CPUs, the recommended DC input range is 18V to 48V.				Shock	EN 50155:2017/ IEC 61373, Category I, Class B - Body mounted
CEPFCC Class A, according to EN 55032 & EN 55035 CEPFCC Class A, according to EN 55032 & EN 55032 & EN 55035 CEPFCC Class A, according to EN 55032 & EN	Video Port			EMC	
solated DIO 4-CH isolated DI and 4-CH isolated DO current draw caused by the voltage drop to 8V. [2] For 65W CPUs, the recommended DC input range is 18V to 48V.	Serial Port	2x isolated 3-wire RS232/ 422/ 485 port (COM1/ COM2)			
	solated DIO	4-CH isolated DI and 4-CH isolated DO		current draw caused by the voltage drop to 8V.	
	Audio	1x 3.5 mm jack for mic-in and spe	aker-out		





Dimensions



Ordering Information

Model No.	Product Description
GT-92GC	2U 19" rack mount fanless GPU computer including NVIDIA® RTX™ 2000 ADA, supporting Intel® 14th / 13th / 12th-Gen Core™
01-920C	processor

Optional Accessories

280W AC-DC power adapter 24V 11.67A, 85~264VAC, -30~+70°C w/ Wafer FML6P to 2P End Terminal cable for AWP/ SEMIL			
$600W\ AC-DC\ power\ adapter\ 24V\ 25A,\ 85\sim264VAC,\ -20\sim+70^{\circ}C,\ w/\ 4PY\ Terminal\ to\ 4P\ End\ Terminal\ cable\ for\ AWP/SEMIL$			
M12 L-Code 5P(FML) to Cord End Terminal 5P, Length: 180cm			
M12(8-pole-X-coded) to RJ45, CAT6A, Length: 500CM			
DB9 (Female) to 2x DB9 (Male), Length: 15CM for CAN1/2			
Accessory box kits for Splicing Connector 2-Pole, included 10pcs			
Rack-mount assembly for GT-92 series			
Wall-mount assembly for GT-92 series			
NGFF M.2 key B to mini-PCle adapter with dual nano-SIM slots			
NGFF M.2 key E to mini-PCle adapter			
NGFF M.2 key M to mini-PCle adapter			

Cable Kit Guide www.neousys-tech.com

GT-92GC

Туре	Model Name	Description
	Cbl-M12L5F-CordEnd5-180CM	M12 L-Code 5P(FML) to Cord End Terminal 5P, Length: 180cm
	Cbl-M12X8M-RJ45-CAT6A-500CM	M12(8-pole-X-coded) to RJ45, CAT6A, Length: 500CM
	Cbl-DB9F-2DB9M-15CM	DB9 (Female) to 2x DB9 (Male), Length: 15CM for CAN1/2
	AccsyBx-SplicingConnector	Accessory box kits for Splicing Connector 2-Pole, included 10pcs