

Railway Computer



GT-92RL-H

EN50155 & EN45545 19" rack mount railway GPU computer including NVIDIA® 2000 ADA, supporting Intel® 14th/ 13th / 12th-Gen Core™ processor, 43V to 160V DC input with isolation

Key Features

- $\cdot\,$ Compliant with EN 50155 mandatory tests and EN 45545-2
- · Intel® 14th/ 13th/ 12th-Gen LGA1700 processor (35W/65W)
- Fanless GPU computer with NVIDIA® RTX 2000 ADA
- · 2U 19" chassis for rack-mount or wall-mount
- · 43V to 160V wide-range DC input via M12 K-Coded connector
- · 9x GbE ports via M12 X-Coded connectors
- · 1x M.2 2280 M key with PCIe-Gen 4x4 for NVMe storge
- · 2x full-size mPCle sockets for MVB modules
- -40°C to 55°C wide-temperature fanless operation

C€ F©

GET QUOTE



GT-92RL-H 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-92RL-H is ideal for multi-camera applications requiring real time responses, e.g., pantograph and track gauge monitoring, video analytics in train carriages, track object identification, and tunnel inspection, etc.

CONTACT US

GT-92RL-H has a proven thermal design to guarantee reliable system operation from -40°C to 55°C. It features a passive-cooling design for the system and 70W GPU card. Supporting eight GigE cameras (or IP cameras) and four USB3 cameras, GT-92RL-H is ideal for various vision-based AI applications on rolling stocks with its 110V DC input design and EN 50155/ EN 45545 certifications. 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-92RL-H is the perfect edge AI inference platform for rolling stock applications.

Specifications

System Core			Storage Interface	
	Supporting Intel® 14th-Gen Core™ CPU (LGA1700 socket, 65W/ 35W TDP) - Intel® Core™ !9-14900/ i9-14900T - Intel® Core™ :07-147001 T- 14700T - Intel® Core™ :07-14500/ :51-14500T - Intel® Core™ :07-14500/ :07-14500T		SATA HDD	2x hot-swappable HDD trays for 2.5" HDD/ SSD installation, supporting RAID 0/ 1
			M.2 NVMe	1x M.2 2280 M key NVMe socket (PCle Gen4x4) for NVMe SSD
			Internal Expansion Bus	
Processor	Supporting Intel® 13th-Gen Core™ CPU (LGA1700 socket, SSW 35WTDP) - Intel® Core™ i9-13900E i9-13900TE - Intel® Core™ i7-13700E i7-13700TE - Intel® Core™ i5-13500E i5-13400E i5-13500TE - Intel® Core™ i5-13500E i3-13100TE	Supporting Intel® 12th-Gen Core™ CPU (LGA1700 socket, 65W/ 35W TDP) - Intel® Core™ i9-12900FE - Intel® Core™ i7-12700FI - 1-12700TE - Intel® Core™ i5-12500F i5-12500TE - Intel® Core™ i3-12100FI i-12500TE intel® (Core™ i3-12500FI i-12500TE intel® (Core™ i3-12500FI i-12500FI i	Mini PCI Express	2x full-size mini PCI Express socket with SIM slot
			Power Supply	
			DC Input	43V to 160V DC input (M12 K-coded)
			Mechanical	
Chipset	Intel® R680E platform controller hu		Dimension	440mm (W) x 250mm (D) x 88mm (H) (excl. rack-mount bracket)
Graphics	Integrated Intel® UHD Graphics 770 (32EU)		Weight	8.0 kg
Acceleration GPU	NVIDIA® RTX 2000 ADA		Mounting	Rack-mounting (optional) and wall-mounting (optional)
Memory	Up to 64 GB ECC/ non-ECC DDR5 4800 SDRAM (two SODIMM slots)		Environmental	
AMT	Supports Intel vPro/ AMT 16.0		Operating Temperature	with 35W CPU -40°C ~ 55°C ^[1]
TPM	Supports dTPM 2.0			
I/O Interface				with 65W CPU -40°C ~ 35°C ^[1]
Ethernet	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		Storage Temperature	-40°C to 85°C
PoE+	None		Humidity	10% to 90%, non-condensing
CAN Bus	2x isolated CAN 2.0 port, supporting SocketCAN in Linux		Vibration	EN 50155:2017/ IEC 61373, Category I, Class B - Body mounted
USB	4x USB 3.2 Gen2x1 (10 Gbps) ports in type-A connectors		Shock	EN 50155:2017/ IEC 61373, Category I, Class B - Body mounted
Video Port	1x HDMI 1.4, supporting 4096×2160 resolution 1x DisplayPort, supporting 4096 x 2304 resolution		EMC	EN 50121 (EN 50155 EMC) CE/FCC Class A, according to EN 55032 & EN 55035
Serial Port	2x isolated 3-wire RS232/ 422/ 485 port (COM1/ COM2)		EN 50155	All mandatory sections of EN 50155:2017 (110V)
Isolated DIO	4-CH isolated DI and 4-CH isolated DO		EN 45545	EN 45545-2 (Fire protection on railway vehicles)
Audio	1x 3.5 mm jack for mic-in and speaker-out		[1] For sub-zero operatin	g temperature, a wide temperature HDD or Solid State Disk (SSD) is required.

All rights reserved. Copyright© 2024 Neousys Technology Inc

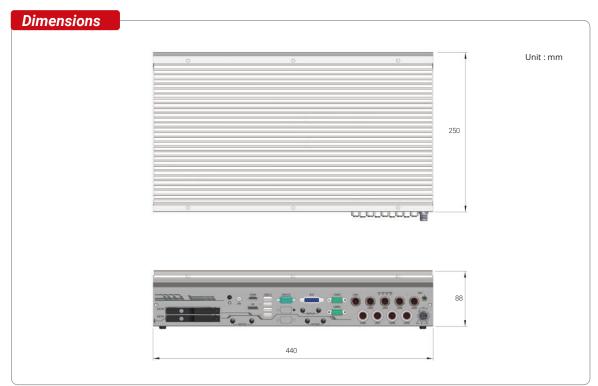
Last updated: 3 - Dec 2024



GT-92RL-H







Ordering Information

Model No.	Product Description
	EN50155 & EN45545 19" rack mount railway GPU computer including NVIDIA® 2000 ADA, supporting Intel® 14th/13th / 12th-Gen Core™ processor, 43V to 160V DC input with isolation

Optional Accessories

Cbl-M12K5F-CordEnd4-180CM	M12 K-Code Female 5P to Cord End Terminal 4P, Lenght: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		
Rmkit-GT92	Rack-mount assembly for GT-92 series		
Wmkit-GT92	Wall-mount assembly for GT-92 series		
mPCIe-M2B	NGFF M.2 key B to mini-PCIe adapter with dual nano-SIM slots		
mPCIe-M2E	NGFF M.2 key E to mini-PCIe adapter		
mPCIe-M2M	NGFF M.2 key M to mini-PCle adapter		

All specifications and photos are subject to change without prior notice



Cable Kit Guide www.neousys-tech.com

GT-92RL-H						
Туре	Model Name	Description				
3	Cbl-M12K5F-CordEnd4-180CM	M12 K-Code Female 5P to Cord End Terminal 4P, Lenght: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				



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508 Support: +1 347 719 4508

1309 Coffeen Ave Ste 1200 Sheridan WY 82801 USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050 Support: +44 (0)1785 879 050

Unit A5 Douglas Park Stone Business Park Stone ST15 0YJ United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660