

Fanless Mini - Intel 13th Gen In-vehicle Computer - 51

In-Vehicle Rugged Mini PC

The In-Vehicle Rugged Mini PC is designed specifically for in-vehicle use featuring a robust design to withstand harsh environments and vibrations encountered in an automotive, powered by Intel. One of the essential features of the iVRC is an intelligent ignition control system. The ignition control system allows the computer to turn on or off automatically with the vehicle's ignition status, ensuring efficient power management and reducing the risk of draining the vehicle's battery. The iVRC is equipped with multiple I/O ports. Additionally, it is ruggedized and fanless to enhance reliability and minimize maintenance requirements. These rugged in-vehicle computers are commonly used in a variety of applications, such as fleet management, transportation systems, public safety vehicles and other industries that require reliable computing capabilities in demanding conditions.



Key Features

- Processor: i5 up to i7
- Operating Range: -15C to 60C
- Intelligent Ignition Control
- Dual LAN
- Anti Vibration Plate



Key benefits of **FANLESS** and **RUGGED** computers



No fans obviously means no noise, but it's not the only benefit!



No fans allow an important decrease in power consumption, making our products more sustainable!



A fanless computer eliminates the risk to draw in dust and dirt from the environment, the cause of potential failures and costly downtime.



The absence of moving parts enable our products to resist shocks and vibrations, for an increased reliability.



They are built to withstand harsh and constrained working conditions.



High Ingress Protection (IP) rating, indication the protection level of products against both solid and liquids in electrical enclosures.



The in-house designed and milled aluminium chassis is optimized for efficient passive cooling and durability. Its conception proved their reliability in extended operating temperatures.



The aluminium used for the chassis production is repurposed and recycled, and the production waste is recycled too!

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Rear view (some features shown maybe options)

Technical Specification

Processor	Intel i5 1335U - 10 Cores / 12 Threads - 3.40 GHz - 12MB Intel Smart Cache Intel i7 1355U - 10 Cores / 12 Threads - 3.70 GHz - 12MB Intel Smart Cache		
Memory	Slots: 2 x SO-DIMM Slots MAX Capacity: 64GB Type: DDR4-3200 1.2V SO-DIMM ECC Support: No	Storage	Storage 1 Max: 4TB M.2 NVME 2280 Storage 2 Max: 8TB 2.5" SATA SSD
Graphics Controller	Intel (R) UHD Graphics	Graphics Interface	1 x DisplayPort 4096 x 2160 @ 60Hz 1 x HDMI 2.0 4096 x 2160 @ 60Hz
Network Interface	I219-V - 1 x RJ45 - 10/100/1000 Mbps RTL8111H - 1 x RJ45 - 10/100/1000 Mbps	Network Options	Dual Band WIFI/4G/Dual LAN
Network Feature	Wake-On-Lan PXE or UEFI PXE	Remote Management	N/A
Hardware Monitoring	Watchdog On-Board	Supported OS	Windows 10 - 64 bit Windows 11 - 64 bit Linux
Encryption			
Power Input	3-pin 5.08mm pitch "Phoenix" connector		
Input Voltage	12V-34V		
Consumption	84 - 120w		

Physical Specification

I/O Front	Power/reset switch, DC-In 12-34V	LED Front	Power LED
I/O Rear	2x RJ45 for LAN, 2x USB3.0, 1x Display Port, 1x HDMI, 1 x 3.5mm Audio-Out, 1 x 3.5mm Mic-In, 2x USB3.0 (optional), Sim Port	LED Rear	Network Uplink/Activity
I/O Optional	N/A	COM Port Option	fTPM 2.0 (Intel PTT)
Operational Temp	-15c to 60c (5F to 140F)	Storage Temp	-20c to 70c (-4F to 158F)
Maximum relative humidity	5% to 95%	Cooling Type	Passive Cooling
Size	80 x 336 x 221 mm	Weight	9.4 KG
Accessories	Vibration proof mount plate	Optional Accessories	N/A
Certifications	CE, UKCA, RoHS, FCC , WEEE	Warranty	3 years