

TRANQUILIT

ALL TERRAIN

Fanless Mini - Intel 10th Gen Mobile - IP51

Our Fanless Mini Rugged range offers an array of processor options, IP rating levels, and both modern and legacy I/O

The Fanless Mini Rugged has great flexibility including legacy IO such as RS232. Other features include HDMI, USB3.0 and powered by up to an i7. The Mini Rugged is a versatile product ensuring reliability with a wide range of I/O options.



Key Features

- Processor: i3 up to i7
- Operating Range: -20C to 50C
- fTPM 2.0 (Intel PTT)
- Dual 1Gbe LAN
- Maintenance free



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, indicating 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!

MR-10MDL-51

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Rear view (some features shown maybe options)

Technical Specification

Processor	Intel i3 10110U - 2 core / 4 threads - 2.10 Ghz - 4MB Cache Intel i5 10210U - 4 core / 8 threads - 1.60 Ghz - 6MB Cache Intel i7 10710U - 6 core / 12 threads - 1.10 Ghz - 12MB Cache		
Memory	Slots: 2 x SO-DIMM Slots MAX Capacity: 64GB Type: DDR4-2666 1.2V SO-DIMM ECC Support: No	Storage	Storage 1 Max: 4TB M.2 NVME 2280 PCIe 3.0 x4 Storage 2 Max: 8TB 2 x 2.5" SATA SSD
Graphics Controller	Intel UHD Graphics for 10th Gen Intel Processors	Graphics Interface	1 x DisplayPort 1.2 - 4096 x 2160 @ 60HZ 1x HDMI 1.4 – 4096 x 2160 @30HZ
Network Interface	RTL8111H - 2 x RJ45 - 10/100/1000 Mbps	Network Options	RTL8188EE - Wi-Fi 4 IEEE 802.11 b/g/n - 2.4GHz RTL8821AE - Wi-Fi 5 IEEE 802.11 b/g/n/ac - 2.4GHz/5GHz Dual Band + Bluetooth 4.0 4G Option (instead of WiFi): Quectel LTE EC25
Network Feature	Wake-On-Lan PXE (UEFI and Legacy)	Remote Management	N/A
Hardware Monitoring	Watchdog On-Board	Supported OS	Windows 10 - 64 bit Windows 11 - 64 bit Linux
Encryption	fTPM 2.0 (Intel PTT)		
Power Input	2.5 x 5.5mm DC Jack		
Input Voltage	12-19V		
Consumption	10 - 60w		

Physical Specification

I/O Front	Power Switch	LED Front	Power
I/O Rear	2x COM, DC-In 12-19V, 2x RJ45 for LAN, (Optional 4x USB2.0), 2x USB3.0, 1x DP, 1x HDMI, 1 x 3.5mm Audio-Out, 1 x 3.5mm Mic-In	LED Rear	Network Uplink/Activity
I/O Optional	Dual Antenna	COM Port Option	RS232/RS422/RS485 RS485
Operational Temp	-20c to 50c (-4F to 122F)	Storage Temp	-20c to 80c (-4F to 176F)
Maximum relative humidity	5% to 95%	Cooling Type	Passive Cooling
Size	49 x 208 x 180 mm	Weight	2.4 KG
Accessories	Power supply, power cord	Optional Accessories	Wireless Antenna, VESA KIT
Certifications	CE, UKCA, RoHS, FCC , WEEE	Warranty	3 years

UK CA RoHS FC CE

