

TRANQUILIT

ALL TERRAIN

Fanless Mini - Intel 12th Gen Mobile - IP51

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

The Fanless Mini is our 12th Gen rugged computer powered by up to an i7 processor. Our Industrial rugged Fanless Mini is designed to operate in harsh environments where standard consumer-grade computers would not be able to function reliably. These environments can include extreme temperatures, high levels of dust and moisture, and exposure to physical shock and vibration, commonly used in industries like manufacturing, aerospace, military, and agriculture.



Key Features

- Processor: i3 up to i7
- Operating Range: -20C to 60C
- 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, 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!

FM-12M-51

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Rear view (some features shown maybe options)

Technical Specification

Processor	Intel i3 1210U - 6 Cores / 8 Threads upto 4.40 GHz - 10MB Cache Intel i5 1235U - 10 Cores / 12 Threads upto 4.40 GHz - 12MB Cache Intel i7 1255U - 10 Cores / 12 Threads upto 4.70 GHz - 12MB 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 PCIe 3.0 Storage 2 Max: 8TB 2.5" SATA SSD
Graphics Controller	Intel UHD Graphics for 12th Gen Intel Processors	Graphics Interface	1 x DisplayPort 7680 x 4320P @ 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	RTL8821CE Wi-Fi 5 IEEE 802.11 b/g/n/ac - 2.4GHz/5GHz + Bluetooth 4.2 AX210 - Wi-Fi 6E IEEE 802.11 b/g/n/ac/ax - 2.4GHz/5GHz/6GHz + Bluetooth 5.3 4G Option
Network Feature	Wake-On-Lan PXE	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	70w		

Physical Specification

I/O Front	Power switch	LED Front	Power
I/O Rear	DC-In 12-19V, 2x RJ45 for LAN, (Opt 2x USB2.0 or 1x RS232), 2x USB3.0, 1x Display Port, 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 (Optional)
Operational Temp	-20c to 60c (-4F to 140F)	Storage Temp	-20c to 70c (-4F to 158F)
Maximum relative humidity	5% to 95%	Cooling Type	Passive Cooling
Size	51 x 177 x 208 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

