

## Fanless Mini - Intel 14th Gen Mobile - IP51

### Our 14th Gen Rugged PC is designed for challenging environments

Our rugged fanless mini PC is equipped with the latest Intel Core Ultra processors, delivering performance in a compact and durable form factor. Perfect for industrial, IoT, and embedded applications, The fanless design ensures quieter, longer-lasting performance with no moving parts, whether you're working in extreme temperatures, dusty conditions, or space-constrained areas, this mini PC is designed to meet demanding challenges. Lower power consumption ensures cost-effective operations in both commercial and industrial settings.



### Key Features

- Processor: Intel Core Ultra 5 135u - Intel Core Ultra 7 155u
- Operating Range: -10C to 60C
- Dual 1GbE LAN
- Encryption: fTPM 2.0 (Intel PTT)



### 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-14M-51

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Rear view (some features shown maybe options)

### Technical Specification

<b>Processor</b>	Intel Core Ultra 5 135u - 12 Core / 14 Thread - up to 4.40 GHz -12MB Smart Cache Intel Core Ultra 7 155u - 12 Core / 14 Thread - up to 4.8 GHz -12MB Smart Cache		
<b>Memory</b>	<b>Slots:</b> 2x SO-DIMM Slots <b>MAX Capacity:</b> 96GB <b>Type:</b> DDR5 4800/5600 MHz SO-DIMM <b>ECC Support:</b> No	<b>Storage</b>	Storage 1 Max: 4TB M2.NVME 2280 Storage 2 Max: 8TB 2.5" SATA SSD
<b>Graphics Controller</b>	Intel Arc Graphics	<b>Graphics Interface</b>	1 x DisplayPort 4096 x 2160 @ 60Hz 1 x HDMI 2.0 4096 x 2160 @ 60Hz
<b>Network Interface</b>	I219-V - 1 x RJ45 - 10/100/1000 Mbps RTL8111H - 1 x RJ45 - 10/100/1000 Mbps	<b>Network Options</b>	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/5G option
<b>Network Feature</b>	Wake-On-Lan PXE or UEFI PXE	<b>Remote Management</b>	remote switch machine intelligent
<b>Hardware Monitoring</b>	Watchdog On-Board	<b>Supported OS</b>	Windows 10 - 64 bit Windows 11 - 64 bit Linux Linux Ubuntu
<b>Encryption</b>	fTPM 2.0 (Intel PTT)		
<b>Power Input</b>	2.5 x 5.5mm DC Jack		
<b>Input Voltage</b>	12V-19V		
<b>Consumption</b>	84 - 120w		

### Physical Specification

<b>I/O Front</b>	Power switch	<b>LED Front</b>	Power
<b>I/O Rear</b>	DC-In 12-19V, 2x RJ45 for LAN, 2x USB3.2, 1x Display Port, 1x HDMI, 1 x 3.5mm Audio-Out, 1 x 3.5mm Mic-In, Sim Slot	<b>LED Rear</b>	Network Uplink/Activity
<b>I/O Optional</b>	Dual Antenna	<b>COM Port Option</b>	RS232/RS422/RS485 (Optional)
<b>Operational Temp</b>	-10c to 60c (14F to 140F)	<b>Storage Temp</b>	-20c to 70c (-4F to 158F)
<b>Maximum relative humidity</b>	5% to 95%	<b>Cooling Type</b>	Passive Cooling
<b>Size</b>	51 x 177 x 208 mm	<b>Weight</b>	2.4 KG
<b>Accessories</b>	Power Supply, power cord	<b>Optional Accessories</b>	Wireless Antenna, VESA KIT
<b>Certifications</b>	CE, UKCA, RoHS, FCC , WEEE	<b>Warranty</b>	3 Years

UK RoHS FC CE

