Technical Specification

Model No.: GF Series

Size: 195*180*30/42mm

1. Introduction:

- HM87 is an EU-standard pluggable OPS computing module for smart boards and commercial displays.
- It adopts HM87 chipset, supports Intel 4th Gen Core mobile CPUs with integrated Intel HD Graphics 4600.
- It connects to displays via standard 80-pin OPS gold finger connector.
- With rich I/O ports and wireless expansion, it runs Windows 7/10, supporting fast replacement and stable long-time operation.

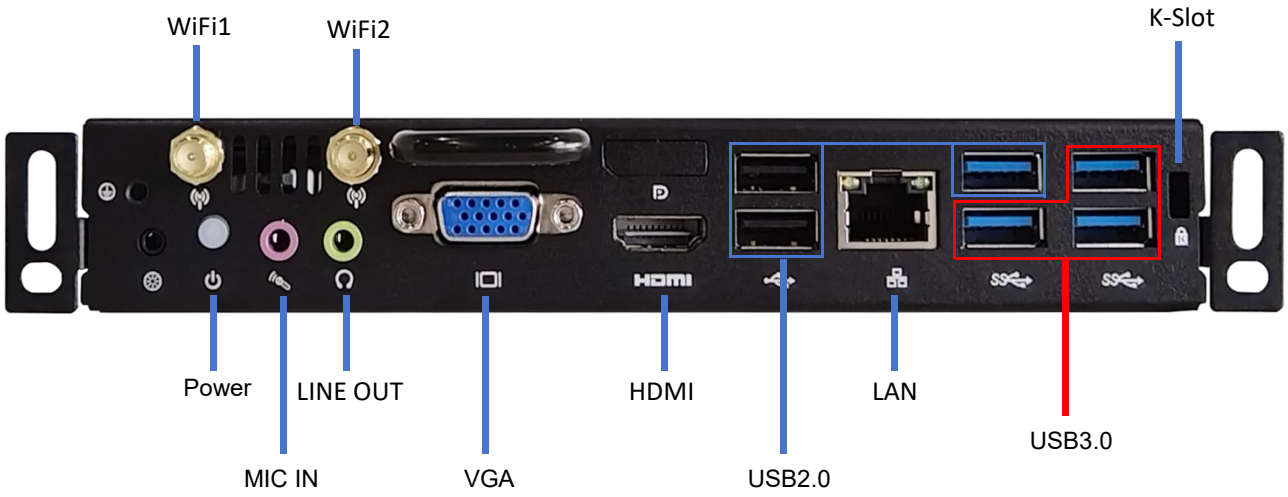
2. Main Features

- HM87 chipset, supports Intel® 4th Gen Core mobile CPUs; Intel HD Graphics 4600, HDMI up to 4K@30Hz
- Standard 80-pin OPS gold finger, pluggable design for easy installation & maintenance
- Single-channel SO-DIMM DDR3 1333/1600MHz, max 8GB; dual storage: 1×Msata +1×2.5 HDD
- Full I/O: 3×USB3.0, 3×USB2.0, HDMI, VGA, RTL8111H Gigabit LAN, MIC In, Line Out
- eM.2 2230 slot for 2.4G/5G WiFi5/WiFi6+BT, paired with dual-band antennas
- fPower button & one-key OS recovery button; Power LED and HDD activity LED
- HDMI & USB signals available via 80Pin OPS connector; DC input:12V~19V
- Operation system: Windows7/10

3. Specifications

Model	GF Series
CPU	Support Intel ® 4th generation core mobile CPU
Chipset	HM87/HM86
RAM	Single channel SO-DIMM DDR3，1333/1600MHz
	Maximum To 8GB
SSD/HDD	1×Msata
	1×2.5 HDD
Graphics	Intel HD graphics 4600
USB	3×USB3.0
	3×USB2.0
Audio	1×MIC In（Pink）
	1×Line Out（Green）
HDMI	1×HDMI（Max. support resolution ratio 3840x2160@30Hz）
VGA	1×VGA（Max. support resolution ratio 1920x1080@60Hz）
LAN	1×RJ45（RTL8111 hgigabit LAN）
LED Lighte	1xHDD LED（System running normally: red light blinking）
	1xPower LED （System running normally: green light blinking）
Antenna	2×2.4G/5G Dual antenna
Power Button	1xPower button
WLAN	1×M.2 2230 2.4G/5G/6G+BT（Wifi5、Wifi6 optional）
80Pin OPS Interface	1×HDMI（Max. support resolution ratio 3840x2160@30Hz）
	1×USB3.0
	2×USB2.0
	12V~19V
Windows	Windows 7/10
Power Supply	TRNF DC IN, Input Voltage 12V~19V
Operation	Temperature：-10℃~50℃；Humidity：10%~90%RH
Storage	Temperature：-20℃~60℃；Humidity：10%~90%RH
Structure Dimension (L×W×T)	195mm×180mm×30mm 195mm×180mm×42mm

4. I/O Interfaces



5. Product Advantages

- Ultra-low resistance transistors for CPU power supply, stable for 24/7 continuous operation
- Optimized PCB layout & air channel, excellent heat dissipation to avoid thermal throttling
- Flexible sub-card options to satisfy various project requirements
- Supports watchdog, power-on boot, remote wake-up and hardware monitoring for centralized management
- Great compatibility with education, meeting and digital signage software

6. Disclaimer

- Due to product configuration and manufacturing process, the actual body size and weight may vary. Please refer to the real product.
- Pictures in this specification are for illustration only. The appearance, color, dimension and other details of the delivered product may differ slightly. Please refer to the real product.
- To ensure accurate descriptions, we reserve the right to revise text, images and other contents of this specification to match the actual product performance and specifications without prior notice.