Technical Specification

Model No.: GP Series

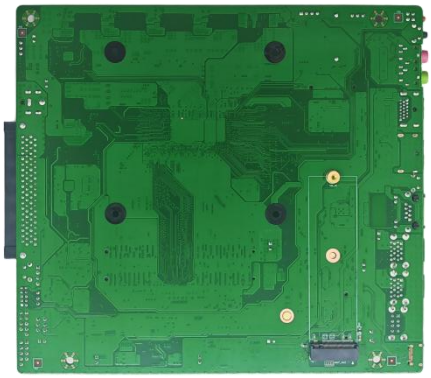
Size: 195*180*30/42mm

1. Introduction:

- It is a hot-pluggable Asia-size OPS computing module with standard 80-Pin OPS gold-finger connector.
- For interactive smart whiteboard and commercial display.
- On board 12th-Gen Alder Lake core mobile CPU
- Chipset:Intel® UHD Graphics

2. Main Features

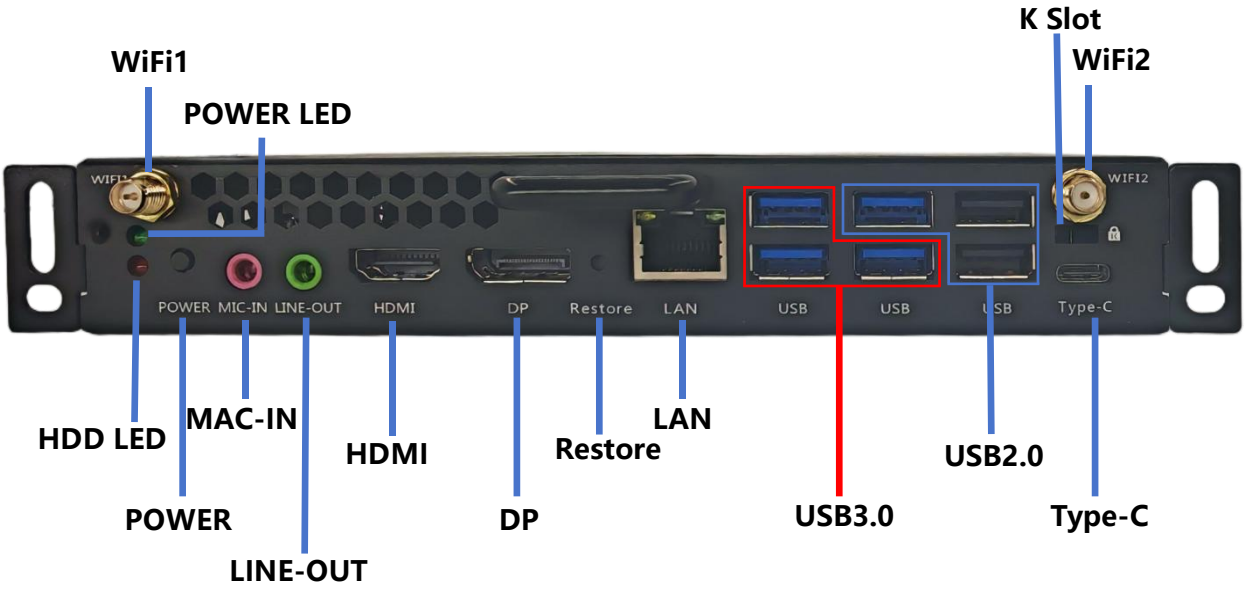
- Memory: Dual-channel DDR4 2666/3200MHz, 2× 260Pin SODIMM sockets, max 64GB.
- Storage Dual M.2-2280 slots: one for NVMe protocol, one for SATA protocol.
- USB: 3×USB3.0 + 3×USB2.0 + 1×Type-C
- Video: HDMI 4K@60Hz, DP 4K@60Hz
- LAN: RTL8111H Gigabit RJ45 port
- Antennas: 2×2.4G/5G dual-band antennas
- Wireless Expansion: M.2 2230 slot, support 2.4G/5G/6G, WiFi5 / WiFi6 + Bluetooth module optional.
- 80-Pin OPS Gold-finger Signals: HDMI 4K@60Hz, 1× USB3.0, 2×USB2.0; DC input:12-19V.



3. Specifications

Model	GP Series
CPU	Support Intel ® 12th generation core mobile CPU i5-1235U/12450H/12600H, i7-12650H/12700H/1270P
Chipset	SOC
RAM	Dual Channel DDR4 2666/3200MHz, 2×260-Pin DDR4 SODIMM
	Maximum To 64GB
SSD	1×M.2 2280 NVMe Protocols
	1×M.2 2280 SATA Protocols
Graphics	Intel® UHD Graphics
USB	3×USB3.0
	3×USB2.0
Audio	1×MIC In（Pink）
	1×Line Out（Green）
Type-c	1×Type-c
HDMI	1×HDMI（Max. Support resolution ratio 3840×2160@60Hz）
DP	1×DP（Max. Support resolution ratio 3840×2160@60Hz）
Lan	1×RJ45（RTL8111H Hgigabit LAN）
LED Light	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
Resetore	1xResetore
WLAN	1×M.2 2230 2.4G/5G/6G+BT（Wifi5、Wifi6 optional）
80Pin OPS Interface	1×HDMI（Max. support resolution ratio 3840x2160@60Hz）
	1×USB3.0
	2×USB2.0
	Power Supply 12V~19V
Windows	Windows 10/11
Power Supply	TRNF DC IN, Input Voltage 12V~19V
Operation	Temperature：-10℃~50℃；Humidity：10%~90%RH
Storage	Temperature：-20℃~60℃；Humidity：0%~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.