

IBOX-718B

Intel® 12th/13th/14th Gen Core™ i3/i5/i7

Industrial Computer with Multiple Expansion Slots



Features:

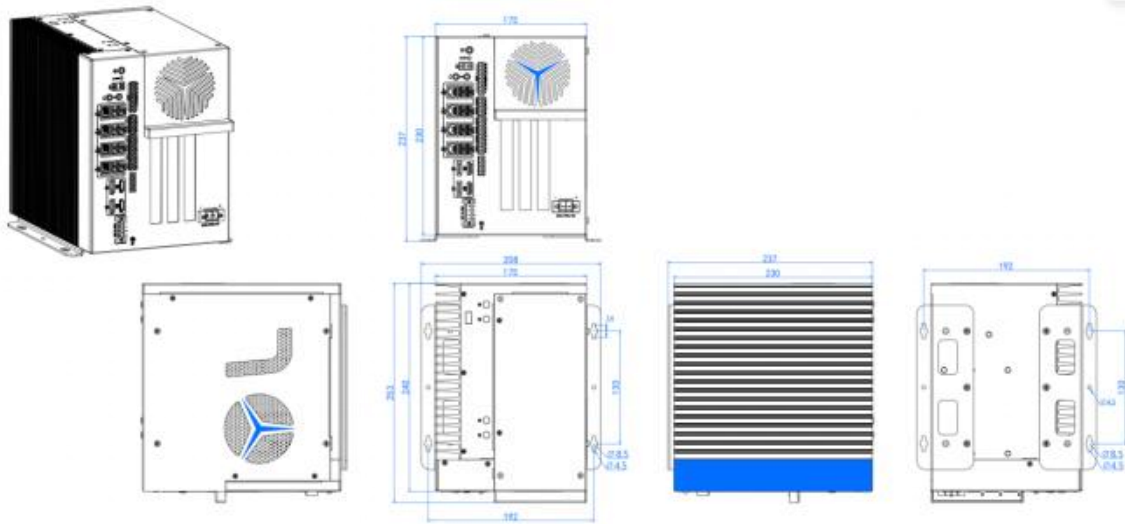
- ◇ Intel Q670 chipset;
- ◇ 4 x M.2 + 1× Mini PCIe;
- ◇ 1xPCIe X16+ 2xPCIe X8;
- ◇ 6× COM (4× RS485, 2× RS232);
- ◇ 8× USB 3.1, 4× GbE LAN (vPro supported);
- ◇ 4P DC wide input 12–28V or 2P DC 12V input
- ◇ Dedicated graphics & high-performance AI accelerator cards;
- ◇ Applicable Systems:



Specification

Model	IBOX-718B Titanium Gray (color customizable)
Case Material	High-quality aluminum alloy + stainless steel structure
Processor	Intel 12th/13th/14th Gen (Alder Lake-S / Raptor Lake-S desktop processors), LGA1700
Chip set	Intel Q670 / W680
Memory	2× DDR5 SODIMM, 4800/5600 MHz, up to 64 GB
Display Chip	Intel HD Graphics 730/770 (integrated)
Display Port	2× HDMI + 2× DP, supports up to 4 independent UHD displays (sync/async)
I/O Port	4× GbE LAN, 8× USB 3.1, 6× COM (COM1–4: RS485, COM5–6: RS232) 2× HDMI, 2× DP, 4-in/4-out GPIO (optocoupled), 4-pos remote switch, CLRTC button 1x 4P+1x 2P power input, power switch, mic/speaker jacks, 1x 6P Phoenix terminal (customizable)
Expansion Port	1 x M.2 3052/3042 B-key (4G/5G optional) + Nano-SIM slot 1 x Mini PCIe (PCIe + USB signals supported) 2× M.2 2280 M-key: 1× PCIe 4.0 X4/SATA, 1× PCIe 4.0 X4 NVME 1× M.2 2230 E-key (Wi-Fi/BT, PCIe + USB) Optional (not standard): 8× GPIO, 3× USB 2.0
Expansion Slot	1× PCIe X16 (X16 signal) + 2× PCIe X8 (X4 signal); Max card size: 215×21×112 mm (L×W×H)
Network	3× Intel i210-AT + 1× Intel i219-LM GbE (with vPro & AMT)
Storage	2× M.2 2280 M-key (1× PCIe 4.0 X4/SATA, 1× PCIe 4.0 X4) + 1× 2.5" SATA bays
Input Voltage	Mainboard Power: DC 12–28V wide input, 4-pin Phoenix (5.08mm pitch) Mainboard + GPU Power: DC 12V input, 2-pin Phoenix (7.62mm pitch), 500W max rating 4P /2P Phoenix connectors are mutually exclusive; do not power both at once. See Note Below ①
Other function	Power-on startup, scheduled startup, Wake-on-LAN, PXE, watchdog (0–255)
Work Temp	0°C to +50°C (commercial HDD) , -20°C to +60°C (industrial SSD)
Work Humidity	5%–95% (non-condensing)
Certificates	CE, CCC, FCC Class A, RoHS
Size	175 × 253 × 230 mm [Excluding wall mount bracket]
Weight	7.26 kg [including graphics card and power supply]
Application	Industrial Automation, Healthcare, Logistics & Transportation, Warehousing, Machine Vision

IBOX-718B Five-View Drawing



Packing List

Name	Quantity	Specifications
Power Input	1	Optional: 4P 150W (12V–12.5A) 2P 500W (12V–41.7A)
PCIE Power Cable	1	8P to 8P male-to-female
GPU power supply bracket	1	A pair
Power cord	1	Available CN、US、UK、EU. etc.
Wall-mount brackets	2	Standard

Optional Information

Configuration 1		Intel Core i3-12300T / 13100T / 14100T	Standard Port, 3× expansion slots
Configuration 2	IBOX-718B	Intel Core i5-12500T / 13500T / 14500T	Standard Port, 3× expansion slots
Configuration 3		Intel Core i7-12700T / 13700T / 14700T	Standard Port, 3× expansion slots

Recommended Independent Graphics Card

GPU Model	Memory Spec	Memory Bandwidth	Deep Learning Computing Power (Tensor Core)	TDP
RTX 3050	GDDR6 8GB	224GB/s	104 TOPS	130W
RTX 3060	GDDR6 8GB / 12GB	240 / 360GB/s	128 TOPS	170W
RTX 4060	GDDR6 8GB	272GB/s	272 TOPS	115W
RTX 4070	GDDR6X 12GB	504GB/s	466 TOPS	200W
RTX 5050	GDDR6 8GB	320GB/s	421 TOPS	130W
RTX 5060	GDDR7 8GB	448GB/s	614 TOPS	145W
RTX 5070	GDDR7 12GB	672GB/s	819 TOPS	200W

Note①:

- For discrete GPU: 2-pin Phoenix (7.62mm) DC 12V input only — 4-pin connector not compatible.
- For ≤60W add-on cards: 4-pin Phoenix (5.08mm) DC 12 - 28V input only — 2-pin connector not compatible.
- Consult sales/technical support for input voltage & power configuration prior to ordering.