PC-GS6177B

Intel® Coffee Lake-R 8th/9th Gen Core™ Processor
Fanless Embedded BOX PC



Features:

- Intel® 8th/9th Gen Core™ Processor
- Memory configuration 4 * DDR4 up to 128GB
- Ultra HD dual 4K, three independent displays 2*DP, 1*VGA
- 3*Gig LAN (iATM available), optional multi 10 gigabit optical interface card
- Multiple PCIe standard slots, supporting multiple high-speed expansion function cards
- Ultra high storage capacity 4 * SATA3.0, 1 * M 2 2280 M-Key, supporting NVMe
- CPU has no fan, and AI/GPU card has efficient air cooling and heat dissipation design

Specifications:

System Specifications

CPU	Intel® 8th/9th-Gen Core™ I7/i5/i3 LGA1151 processor, up to 8 cores and 16 threads
Chipset	Intel® Q370
Graphics	Intel® UHD Graphics, Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1 or PCIe X16 video card display Interface
Watchdog	Programmable timeout interrupt or system reset, 1 to 255 seconds
Memory	4*260 Pin SODIMM, dual channel DDR4 2666/2400MHz, maximum support 128GB
Storage	2*2.5" SATA3 easy plug hard disk rack, supporting Raid0/1(Optional, default to none) 1*M. 2 2280 M-key (PCIe X4), supporting NVMe storage; Optional 1 * full-length mSATA

I/O Ports

USB	6*USB3.1 Type A，2*USB2.0 Type A
COM	2*RS232/422/485 and 2*RS232 DB9 male interfaces
GPIO	16 bit isolation DIO (2*10pin Phoenix terminal), 8*2.5KV optical isolation input (H: 5-24V, L: 0-1.5V), 8*2.5KV optical isolation output (200mA)
Audio	1*Line out&1*MIC dual 3.5mm phone jack interface
Video	1*VGA+2*DP, support 3 independent displays, DP maximum resolution 4096*2304@60Hz , VGA maximum resolution 1920* 1200@60H
Ethernet	2*Intel® I210AT PCIe gigabit network, 10/100/1000Mbps adaptive; 1*Intel® I219LM PCIe Gigabit network, supporting iVpro
Switch	1*Power SW，1*Remote SW，1*AT/ATX SW，1*Clear CMOS SW
Expand	1*PCIe X16+1 * PCIe X4+2 * PCI (2 PXIEX8 (X16 connector)+2 PCIEX4 (X16 connector) optional) 1*M. 2 B-Key 3052 with SIM card slot, supporting 5G wireless network 1*M. 2 E-Key 2230, supporting WIFI/BT 1*Mini PCIe, with SIM card slot, with built-in detection option of mSATA, can be installed with 4G card, network card, serial port card and other functional module cards conforming to Mini PCIe specification I-port: USB2.0/16 bit DIO/Mini PCie/M2
Indicator Light	1*power indicator, 1 * hard disk indicator, 3*CPU working status indicator (Red is alarm, Yellow is high temperature, Green is normal temperature)

OS

OS	Windows*10 Enterprise & IOT Enterprise (64 bit)、Ubuntu、SuSe、Redhat Enterprise 1、2 (Kernel 4.14)、Wind River* VxWorks* 7

Power

Power	DC IN 9~36V，3-pin Term. 7.62mm, overvoltage and overcurrent reverse connection protection
Power Consumption	48.5W(I7-9700T CPU/16GB DDR4/128GB SSD); If the expansion length of high-power video card (350W) is less than 300mm, and the total power consumption exceeds 300W, 1000W AC/DC switching power module can be selected（DC12V@83.3A , 180-264V AC input)

Environment

Vibration Protection	5grms/5~500Hz/random/working status (SSD); 1grms/5~500Hz/random/working status (HDD)	Reliability	MTBF≥50000h; MTTR≤0.5h
		Operating Temp.	-25°C~60°C, air flow
		Storage Temp.	-40°C~85°C
Shock Protection	50g peak acceleration (lasting 11ms) (SSD); 20g peak acceleration (lasting 11ms) (HDD)	Humidity	10~90%@ 40°C, non condensing

Mechanical

Dimensions(WxHxD)	362.8*230*205.9mm	Material	Aluminum rectangular profile heat dissipation shell, SGCC box
Weight	8.8kg		
Color	silver + green		

Ordering Information

PC-GS6177BP2E2	Q370 Chipset/LGA1151 8/9th Gen. Core™ i3/i5/i7、Pentium®、 Celeron® Processor/2*SO-DIMM DDR4/2*2.5 inch/1*mSATA (with SIM card slot, supporting 4G and other wireless functions)/10*COM/2*DP+1*VGA/3*LAN/1 * Audio/4*USB 3.1+3 USB 2.0/16 bit isolated DIO/1*M 2 WIFI/9 ～ 36VDC/1*PCIe*16+1*PCIe*4+2*PCI (2 PXIEX8 (X16 connectors)+2 PCIEX4 (X16 connectors) are optional)
Optional CPU	I7-9700T、I5-9500T、I3-9100T、I7-8700T、I5-8500T、I3-8100T、G5500、G5400、G4950、G4930
GPIO terminal block	8-way isolated input and 8-way power relay output terminal block, DC12V power supply, source signal is 16 bit TTL signal GPIO
Video card/AI accelerator card	Up to 2*350W GPU and 2*75W AI accelerator cards are supported (the length of video card and accelerator card must be less than 300mm)
Adapter	19V/6.32A 120W; 24V/9.17A 220W; 24V/12.5A 300W;
AC/DC Switching Power Supply	DC12V@83.3A output, 180-264V AC input, 1000W (external)

Dimensions:

