

MODEL. I570-BI(C)

Fanless Design Industrial Box PC

Introduction

I570-BI(C) Series Industrial Box PC features a wide voltage range design, along with overvoltage and overcurrent protection. It supports multiple processor options and includes one versatile expansion card slot. It supports Windows and Linux operating systems. The board is pre-installed with Celeron J6412 and Intel Core i3/i5/i7 processors from the 7th-12th generation. It supports 4G network connectivity to meet various communication needs, and features dual-mode WiFi and Bluetooth communication. It also offers comprehensive connectivity with basic peripheral devices.

IDEETECH

I570-BI(C)

INDUSTRIAL BOX PC

POWERFUL. RELIABLE. BUILT FOR INDUSTRY



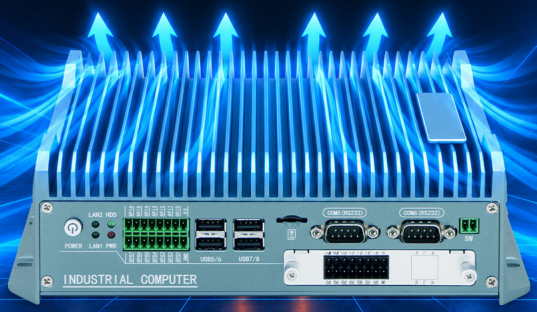
All aluminum alloy heat dissipation

FANLESS COOLING
LOW-NOISE DESIGN

The surface of the industrial computer adopts a striped grid pattern and is molded into a sealed, integrated structure, which ensures external air circulation and improves heat dissipation efficiency; the fanless design reduces dust accumulation.

CIRCULATING HEAT DISSIPATION
Efficient air circulation

LOW NOISE DESIGN
Silent • Reliable • Dust-free



TEMPERATURE

WITHSTANDS EXTREME TEMPERATURES:

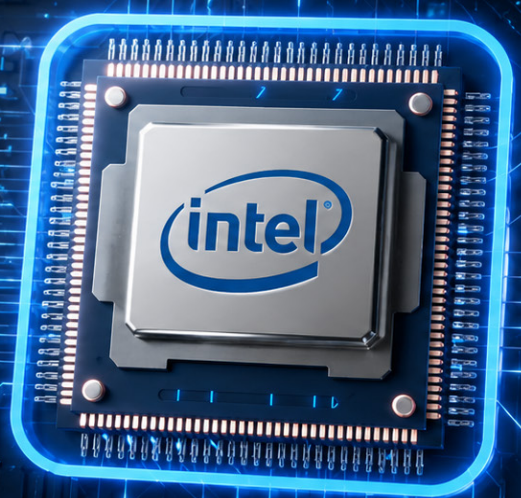
-20°C TO +70°C

WIDE TEMPERATURE -20°C TO 70°C | RUGGED & RELIABLE | DUST RESISTANT | ALL-ALUMINUM ALLOY | LONG-TERM STABILITY



Intel Power Chip
Stable Operation
Faster Than One Step

Through The Controlled High Temperature Test To Test The Product To Adapt To High And Low Temperature, Even In The Harsh Environment Is Not Afraid.



Stable operation

Power on and run 24/7
Stable operation around the clock

Capable of operating around the clock, it can run stably in unstable environments and meets the operational needs of various commercial, automated, and unmanned equipment.



MULTISCREEN DISPLAY

MULTITASK DISPLAY

HDMI + VGA USED TOGETHER (EXTENDED OR COPIED DISPLAY CUSTOMER CHOICE) TO ACHIEVE MULTI-TASK DISPLAY PLATFORM

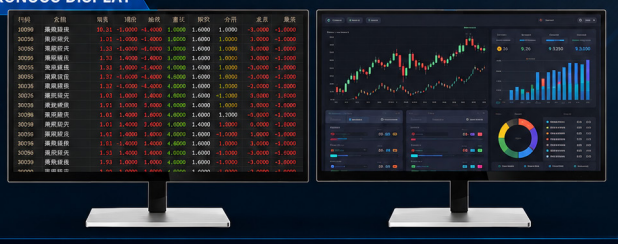
SAME SCREEN DISPLAY

- 1080P FULL HD Clarity
- SAME VIEW Consistent Experience
- EASY SETUP Plug & Play



ASYNCHRONOUS DISPLAY

- MULTI-TASK Independent Content
- HIGH EFFICIENCY Work Smarter
- FLEXIBLE SETUP Extend Your Workspace



Multi-functional Expansion Card Display

Multiple expansion cards available



INSTALLATION

3 INSTALLATION OPTIONS

DESKTOP / EMBEDDED / WALL-MOUNTED

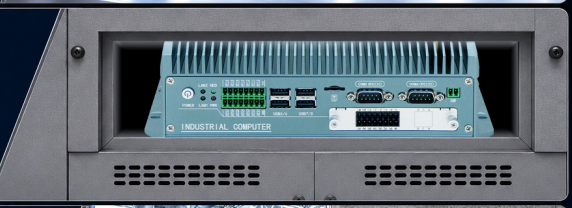
DESKTOP

Place on a desk or flat surface for easy access and maintenance.



EMBEDDED

Integrate into cabinets, kiosks, or enclosures for a clean and space-saving solution.



WALL-MOUNTED

Mount on walls or structures securely with the included mounting brackets.



POWERFUL

COMPATIBILITY SYSTEM

Compatible with Windows 7 / Windows 8 / Windows 10 / Linux.









Specification

Mother Board Specification

Model	I570-BI(C)		
CPU	Celeron J6412	i3: 7100U / 8130U / 10110U i5: 7200U / 7267U / 8250U / 10310U i7: 7500U / 8550U / 10710U	i3: 1115G4 / 1215U i5: 1135G7 / 1235U i7: 1195G7 / 1255U / 1270P
Memory[1]	2*DDR4 RAM Slots, Up to 32GB		
Storage	1*MSATA SSD Slot	1*M.2 NVME SSD Slot	
	1*SATA SSD Slot		
Display[2]	1*HDMI: Resolution up to 4096*2304@60Hz + 1*VGA: Resolution up to 1920*1200@60Hz		
Expansion	2*Mini PCIE Slots Support 4G / 5G and WIFI module		2*M.2 Slots Support 4G / 5G and WIFI module
Ethernet	2*Intel i210-AT LAN Chip (10 / 100 / 1000 Mbps, RJ-45 Type)		
USB	4*USB 3.0 (Type-A) + 4*USB 2.0 (Type-A) + 1*USB 2.0 (Type-A, Built-in)		
COM	4*RS-232 / 422 / 485 (DB9 Type) + 2*RS-232 (DB9 Type)		
GPIO	14 ports GPIO (7*GPI+7*GPO, Phoenix Terminal Type)		
Audio	1*Line-In + 1*Line-Out		

Note:

[1]: The maximum memory capacity and the maximum capacity per strip supported by this motherboard depend on the CPU.
[2]: The maximum resolution and frame rate of the display interface output depends on the CPU.

Fittings Information

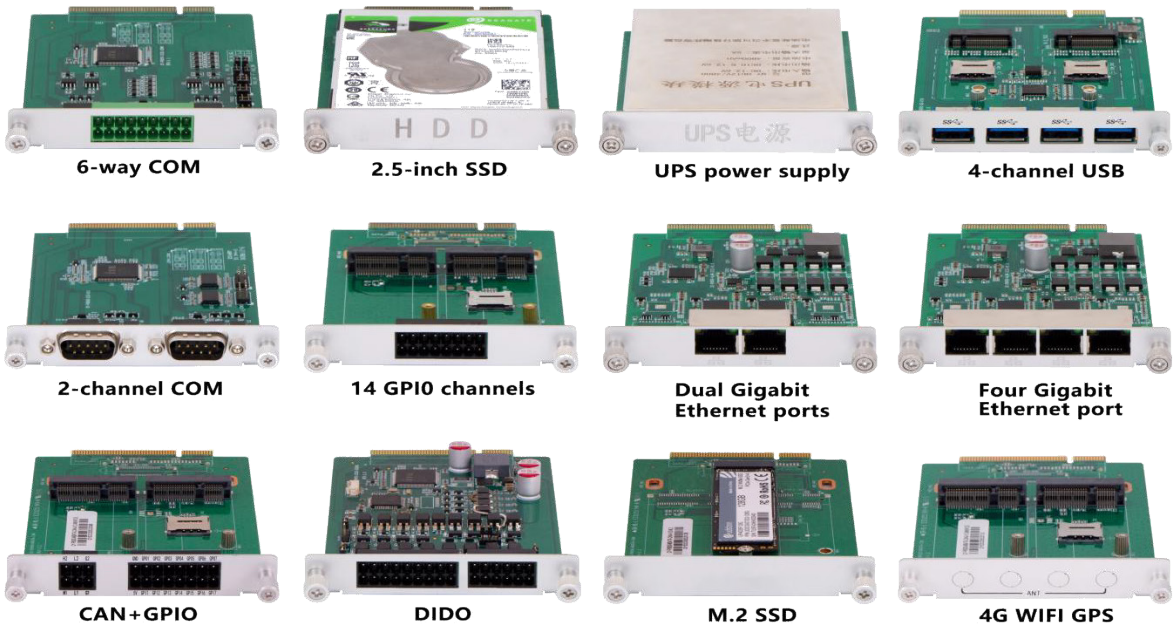
RAM	DDR4	4GB / 8GB / 16GB / 32GB
SSD	MSATA	64GB / 128GB / 256GB / 512GB / 1TB
	M.2 NVME	128GB / 256GB / 512GB / 1TB / 2TB / 4TB
	SATA	120GB / 128GB / 240GB / 256GB / 480GB / 512GB / 960GB / 1TB / 2TB / 4TB
GSM Module	4G	4G+GPS
	5G	5G+GPS
WIFI Module	7260AC / AX210	
CAN BUS Module	2*CAN BUS Ports	

Device Specification

BIOS	AMI UEFI BIOS
Power Input	DC 9-36V, Overvoltage Protection
	Support Auto-Start
	2 Pin Phoenix Terminal Type DC Plug
Watch Dog	Support
Working Temperature	-20℃ - 70℃ , Support 24/7 Working
Storage Temperature	-30℃ - 80℃
Humidity	90% (20±50℃)
Size	236mm*183mm*72mm
Structure	Fully Enclosed Aluminum Alloy Material
Heat dissipation	Fanless Design, Conduction Heat Dissipation
Installation	Desktop / Embedded / Wall-Mounted
System	Windows and Linux

Daughter Card Specification

COM Port-2	2*RS-232 / 485 (DB9 type)
COM Port-6	4*RS-232 / 485+2*RS-232 (Phoenix terminal type)
Ethernet Port-2	2*Intel i211V LAN Chip (RJ-45 type)
Ethernet Port-4	4*Intel i211V LAN Chip (RJ-45 type,POE function optional)
10G Ethernet Port-2	2*10Gbps Ethernet Ports
USB Port-4	4*USB 3.0 (Type-A)
GPIO Port-14	14 ports GPIO, 7*GPI+7*GPO, 0-3.3V (Phoenix terminal type)
Mini PCIE Slot-2	2*Mini PCIE slots, Support 4G and WIFI module
M.2 Slot-1	1*M.2 Key-B slot, Support 5G module
M.2 NVME SSD Slot-1	1*M.2 NVME SSD slot
SATA SSD Slot-1	1*SATA 3.0 SSD Slot, Support RAID 1
CAN Port-2	2*CAN interfaces (Phoenix terminal type)
UPS battery	1.2AH or 4.8AH
DIDO Port-16	16 ports DIDO, 8*DI+8*DO, 24V, Isolation (Phoenix terminal type) Comes with 4*RS-485 COM ports (Phoenix terminal type)



Ordering Information

Model	CPU	LAN	USB	COM	Display	RAM	SSD	Expansion	Power
I570-BI(C)	J6412	2	8	4*RS-232 422/485 2*RS-232	1*HDMI 1*VGA	2*DDR 4 Up to 32GB	1*MSATA 1*SATA	2*Mini PCIE	DC 9-36V
	7th / 8th					2*DDR 4 Up to 32GB	1*M.2 NVME 1*SATA		
	10th					2*DDR 4 Up to 64GB			
	11th / 12th					2*DDR 4 Up to 64GB		2*M.2	

CPU Information

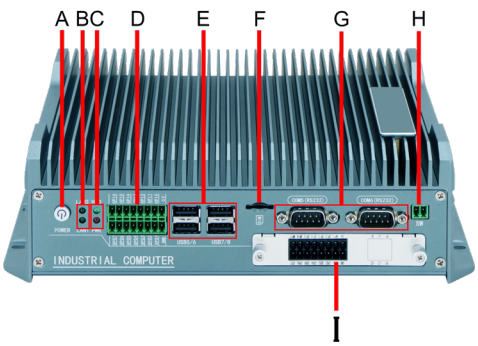
CPU	Core	Threads	Frequency	Cache	Graphics	RAM
J6412	4	4	2.00-2.60GHz	1.5 MB	UHD Graphics	Max to 32GB for 2*DDR4 Slots
i3-7100U	2	4	2.40GHz	3 MB	HD Graphics 620	Max to 32GB for 2*DDR4 Slots
i5-7200U	2	4	2.50-3.10GHz	3 MB	HD Graphics 620	Max to 32GB for 2*DDR4 Slots
i5-7267U	2	4	3.10-3.50GHz	4 MB	Iris® Plus Graphics 650	Max to 32GB for 2*DDR4 Slots
i7-7500U	2	4	2.70-3.50GHz	4 MB	HD Graphics 620	Max to 32GB for 2*DDR4 Slots
i3-8130U	2	4	2.20-3.40GHz	4 MB	UHD Graphics 620	Max to 32GB for 2*DDR4 Slots
i5-8250U	4	8	1.60-3.40GHz	6 MB	UHD Graphics 620	Max to 32GB for 2*DDR4 Slots
i7-8550U	4	8	1.80-4.00GHz	8 MB	UHD Graphics 620	Max to 32GB for 2*DDR4 Slots
i3-10110U	2	4	2.10-4.10GHz	4 MB	UHD Graphics	Max to 64GB for 2*DDR4 Slots
i5-10310U	4	8	1.70-4.40GHz	6 MB	UHD Graphics	Max to 64GB for 2*DDR4 Slots
i7-10710U	6	12	1.10-4.70GHz	12 MB	UHD Graphics	Max to 64GB for 2*DDR4 Slots
i3-1115G4	2	4	3.00-4.10GHz	6 MB	UHD Graphics	Max to 64GB for 2*DDR4 Slots

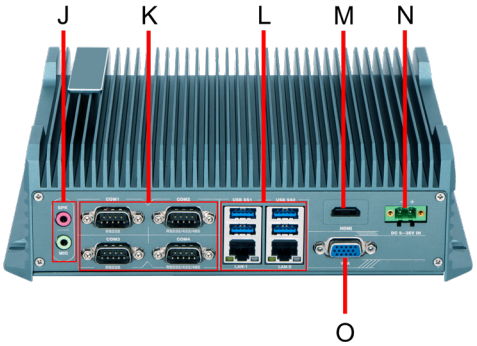
CPU	Core	Threads	Frequency	Cache	Graphics	RAM
i5-1135G7	4	8	2.40-4.20GHz	8 MB	Iris Xe Graphics	Max to 64GB for 2*DDR4 Slots
i7-1195G7	4	8	2.90-5.00GHz	12 MB	Iris Xe Graphics	Max to 64GB for 2*DDR4 Slots
i3-1215U	6	8	1.20-4.40GHz	10 MB	UHD Graphics	Max to 64GB for 2*DDR4 Slots
i5-1235U	10	12	1.30-4.40GHz	12 MB	Iris Xe Graphics	Max to 64GB for 2*DDR4 Slots
i7-1255U	10	12	1.70-4.70GHz	12 MB	Iris Xe Graphics	Max to 64GB for 2*DDR4 Slots
i7-1270P	12	16	2.20-4.80GHz	18 MB	Iris Xe Graphics	Max to 64GB for 2*DDR4 Slots

System Information

CPU	Specification
7th	Windows 7 / 10 and Linux
J6412 / 8th / 10th / 11th / 12th	Windows 10 / 11 and Linux

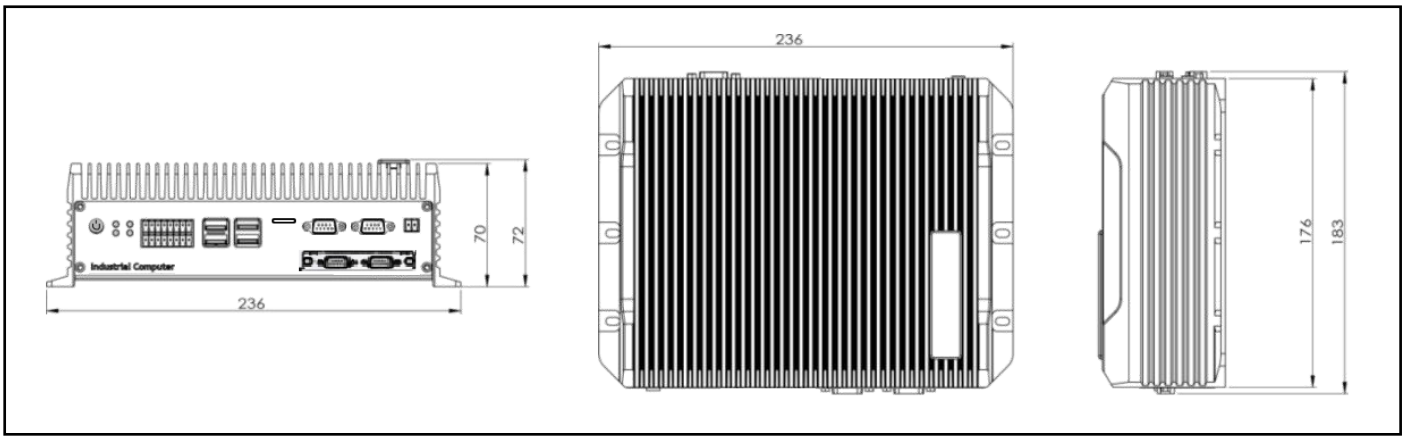
I/O Port





A : Power
B : LAN Poilct lamp
C : HDD/PWR Poilct lamp
D : GPIO
E : USB2.0
F : SIM
G : COM (RS-232)
H : Power Sw
I : Daughter Card
J : SPK + MIC
K : COM (RS-232/422/485)
L : USB3.0 / LAN
M : HDMI
N : DC 9-36V IN
O : VGA

Dimensions



Package List

Adapter	1*12V 7A adapter
Power Cable	1*Power Cable (The type is depends on the national standard of the buyer)
Terminal	2 Pin phoenix terminal for Power Switch
Terminal-2	2*8 Pin phoenix terminal for GPIO

Applications



Factory Automation



Data Acquisition



Firewall Security