

MODEL. I600-BI SERIES

Fanless Design Industrial Box PC

Introduction

I600-BI embedded fanless Industrial Box Pc adopts an internal modular design, supports B85/B365 chipsets, has multiple processors to choose from, and has rich IO interfaces and expandable slots. It supports WINDOWS 7/8/10/11/LINUX operating system, supports 3G, 4G Internet access function, meet communication requirements (need to select the module separately), supports Wifi, Bluetooth dual communication module (need to select the module separately), supports 12 serial ports 12*RS-232 (4*RS422/485 optional) to meet the use beyond the basics.

iDEETECH

I600-BI

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:

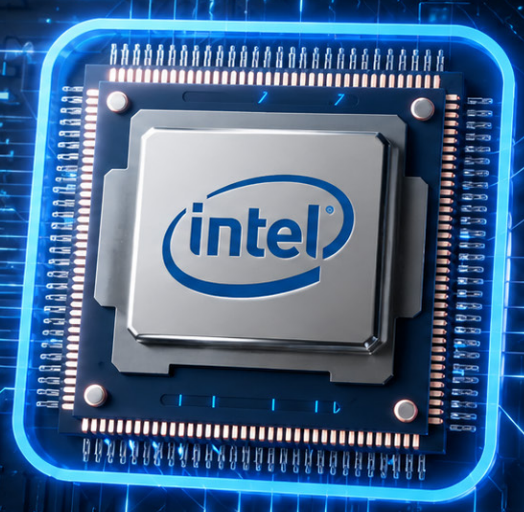
-20°C TO +70°C

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.



Interference-proof and Vibration-resistant

Specifically designed for the rail transit industry

Stable operation | Supports power-on start | Excellent compatibility | Wide range of applications


Train driving control


Train operation dispatch



Automated Ticketing


Ticket gate check


Station Security Check



Train information display

INSTALLATION

3 INSTALLATION OPTIONS

DESKTOP / EMBEDDED / WALL-MOUNTED

01 DESKTOP

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



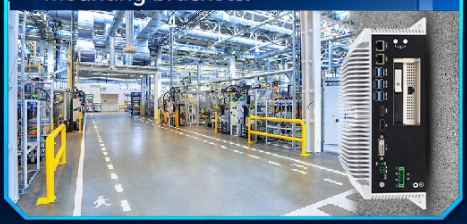
02 EMBEDDED

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



03 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

B85 Mother Board Specification

I600-BI Series			
Model	I600-BI(2E)	I600-BI(4E)	I600-BI(6E)
Chipset	B85		
CPU	Celeron G Series Core 4th-i3 / i5 / i7		
Memory	2*DDR3 RAM Slots, Up to 16GB		
Storage	1*MSATA SSD Slot 1*M.2 NVME SSD Slot 2*SATA SSD Slots		
Display	1*HDMI: Resolution up to 4096*2304@24Hz 1*DP: Resolution up to 3840*2160@60Hz 1*DVI: Resolution up to 1920*1200@60Hz		
Expansion	1*Mini PCIE Slot, Support 4G and WIFI module 1*PCIE 16X or 2*PCI		
Ethernet	2*Intel i211-AT LAN Chip	4*Intel i211-AT LAN Chip	2*Intel i211-AT + 4*Intel i210-AT LAN Chip (Support POE)
	RJ-45 Type (10 / 100 / 1000 Mbps)		
USB	6*USB 3.0 (Type-A) 2*USB 2.0 (Type-A)		
COM	2*RS-232/422/485 (DB9 Type) 4*RS-232 (DB9 Type)	4*RS-232/422/485 (DB9 Type) 4*RS-232 (DB9 Type)	6*RS-232/422/485 (DB9 Type) 4*RS-232 (Phoenix Terminal Type)
Audio	1*Line-In+1*Line-Out		

Specification

B365 Mother Board Specification

I600-BI Series			
Model	I600-BI(2E)	I600-BI(4E)	I600-BI(6E)
Chipset	B365		
CPU	Celeron G Series Core 6 / 7 / 8 / 9th-i3 / i5 / i7 / i9		
Memory	2*DDR4 RAM Slot, Up to 64GB		
Storage	1*MSATA SSD Slot 1*M.2 NVME SSD Slot 2*SATA SSD Slots		
Display	1*HDMI: Resolution up to 4096*2304@24Hz 1*DP: Resolution up to 3840*2160@60Hz 1*DVI: Resolution up to 1920*1200@60Hz		
Expansion	1*Mini PCIE Slot, Support 4G and WIFI module 1*PCIE 16X or 2*PCI		
Ethernet	2*Intel i225V LAN Chip	2*Intel i211-AT LAN Chip 2*Intel i225V LAN Chip	4*Intel i210-AT + 2*Intel i225V LAN Chip (Support POE)
	RJ-45 Type (10 / 100 / 1000 / 2500 Mbps)		
USB	6*USB 3.0 (Type-A) 2*USB 2.0 (Type-A)		
COM	2*RS-232/422/485 (DB9 Type) 4*RS-232 (DB9 Type)	4*RS-232/422/485 (DB9 Type) 4*RS-232 (DB9 Type)	6*RS-232/422/485 (DB9 Type) 4*RS-232 (Phoenix Terminal Type)
Audio	1*Line-In+1*Line-Out		

Fittings Information

RAM	DDR3	4GB / 8GB
	DDR4	4GB / 8GB / 16GB / 32GB
Storage	M.2 NVME	128GB / 256GB / 512GB / 1TB / 2TB / 4TB
	MSATA	64GB / 128GB / 256GB / 512GB / 1TB
	SATA	120GB / 128GB / 240GB / 256GB / 480GB / 512GB / 960GB / 1TB / 2TB / 4TB
GSM Module	4G	4G+GPS
WIFI Module	7260AN / 7260AC / AX210	
GPU	Nvidia T600	

Device Specification

BIOS	AMI UEFI BIOS
Power Input	DC 9-36V With Overvoltage Protection
	Support Auto-Start
	3 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	290.5mm*232mm*117.5mm
Structure	Fully Enclosed Aluminum Alloy Material
Heat dissipation	Fanless Design, Conduction Heat Dissipation
Installation	Desktop / Embedded / Wall-Mounted
System	Windows and Linux

Ordering Information

Model	Chipset	LAN	USB	COM	Display	RAM	SSD	Expansion	Power
I600-BI(2E)	B85	2	8	2*RS-232/422/485 4*RS-232	1*HDMI 1*DP 1*VGA	2*DDR3 Up to 16GB	1*M.2 NVME 1*MSATA 2*SATA	1*Mini PCIE PCIE or PCI	DC 9-36V
I600-BI(4E)		4		4*RS-232/422/485 4*RS-232					
I600-BI(6E)		6		6*RS-232/422/485 4*RS-232					
I600-BI(2E)	B365	2		2*RS-232/422/485 4*RS-232		2*DDR4 Up to 64GB			
I600-BI(4E)		4		4*RS-232/422/485 4*RS-232					
I600-BI(6E)		6		6*RS-232/422/485 4*RS-232					

CPU Information

Intel Chipset B85						
CPU	Core	Threads	Frequency	Cache	Graphics	RAM
Celeron G1820	2	2	2.70GHz	2 MB	HD Graphics	Max to 16GB for 2*DDR3 Slot
Celeron G1820T	2	2	2.40GHz	2 MB	HD Graphics	Max to 16GB for 2*DDR3 Slot
Celeron G1830	2	2	2.80GHz	2 MB	HD Graphics	Max to 16GB for 2*DDR3 Slot
Celeron G1840	2	2	2.80GHz	2 MB	HD Graphics	Max to 16GB for 2*DDR3 Slot
Celeron G1840T	2	2	2.50GHz	2 MB	HD Graphics	Max to 16GB for 2*DDR3 Slot
Celeron G1850	2	2	2.90GHz	2 MB	HD Graphics	Max to 16GB for 2*DDR3 Slot
i3-4130	2	4	3.40GHz	3 MB	HD Graphics 4400	Max to 16GB for 2*DDR3 Slot
i3-4130T	2	4	2.90GHz	3 MB	HD Graphics 4400	Max to 16GB for 2*DDR3 Slot

Intel Chipset B85						
CPU	**Core**	**Threads**	**Frequency**	**Cache**	**Graphics**	**RAM**
i3-4330	2	4	3.50GHz	4 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
i3-4330T	2	4	3.00GHz	4 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
i3-4350	2	4	3.60GHz	4 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
i3-4350T	2	4	3.10GHz	4 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
i5-4570	4	4	3.20-3.60GHz	6 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
i5-4570S	4	4	2.90-3.60GHz	6 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
i5-4570T	2	4	2.90-3.60GHz	4 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
i5-4690	4	4	3.50-3.90GHz	6 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
i5-4690S	4	4	3.20-3.90GHz	6 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
i5-4690T	4	4	2.50-3.50GHz	6 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
i7-4770	4	8	3.40-3.80GHz	8 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
i7-4770S	4	8	3.10-3.90GHz	8 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
i7-4770T	4	8	2.50-3.70GHz	8 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
i7-4790	4	8	3.60-4.00GHz	8 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
i7-4790S	4	8	3.20-4.00GHz	8 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
i7-4790T	4	8	2.70-3.90GHz	8 MB	HD Graphics 4600	Max to 16GB for 2*DDR3 Slot
Intel Chipset B365						
CPU	**Core**	**Threads**	**Frequency**	**Cache**	**Graphics**	**RAM**
Celeron G4900	2	2	3.10 GHz	2 MB	UHD Graphics 610	Max to 64GB for 2*DDR4 Slot
Celeron G4900T	2	2	2.90 GHz	2 MB	UHD Graphics 610	Max to 64GB for 2*DDR4 Slot
Celeron G4930	2	2	3.20 GHz	2 MB	UHD Graphics 610	Max to 64GB for 2*DDR4 Slot

Intel Chipset B365						
CPU	Core	Threads	Frequency	Cache	Graphics	RAM
Celeron G4930T	2	2	3.00 GHz	2 MB	UHD Graphics 610	Max to 64GB for 2*DDR4 Slot
i3-6100	2	4	3.70GHz	3 MB	HD Graphics 530	Max to 64GB for 2*DDR4 Slot
i3-6100T	2	4	3.20GHz	3 MB	HD Graphics 530	Max to 64GB for 2*DDR4 Slot
i3-6300	2	4	3.80GHz	4 MB	HD Graphics 530	Max to 64GB for 2*DDR4 Slot
i3-6300T	2	4	3.30GHz	4 MB	HD Graphics 530	Max to 64GB for 2*DDR4 Slot
i5-6400	4	4	2.70-3.30GHz	6 MB	HD Graphics 530	Max to 64GB for 2*DDR4 Slot
i5-6400T	4	4	2.20-2.80GHz	6 MB	HD Graphics 530	Max to 64GB for 2*DDR4 Slot
i5-6500	4	4	3.20-3.60GHz	6 MB	HD Graphics 530	Max to 64GB for 2*DDR4 Slot
i5-6500T	4	4	3.50-3.10GHz	6 MB	HD Graphics 530	Max to 64GB for 2*DDR4 Slot
i5-6600	4	4	3.30-3.90GHz	6 MB	HD Graphics 530	Max to 64GB for 2*DDR4 Slot
i5-6600T	4	4	2.70-3.50GHz	6 MB	HD Graphics 530	Max to 64GB for 2*DDR4 Slot
i7-6700	4	8	3.40-4.00GHz	8 MB	HD Graphics 630	Max to 64GB for 2*DDR4 Slot
i7-6700T	4	8	2.80-3.60GHz	8 MB	HD Graphics 630	Max to 64GB for 2*DDR4 Slot
i3-7100	2	4	3.90GHz	3 MB	HD Graphics 630	Max to 64GB for 2*DDR4 Slot
i3-7100T	2	4	3.40GHz	3 MB	HD Graphics 630	Max to 64GB for 2*DDR4 Slot
i3-7300	2	4	4.00GHz	4 MB	HD Graphics 630	Max to 64GB for 2*DDR4 Slot
i3-7300T	2	4	3.50GHz	4 MB	HD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-7500	4	4	3.40-3.80GHz	6 MB	HD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-7500T	4	4	2.70-3.30GHz	6 MB	HD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-7600	4	4	3.50-4.10GHz	6 MB	HD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-7600T	4	4	2.80-3.70GHz	6 MB	HD Graphics 630	Max to 64GB for 2*DDR4 Slot
i7-7700	4	8	3.60-4.20GHz	8 MB	HD Graphics 630	Max to 64GB for 2*DDR4 Slot
i7-7700T	4	8	2.90-3.80GHz	8 MB	HD Graphics 630	Max to 64GB for 2*DDR4 Slot

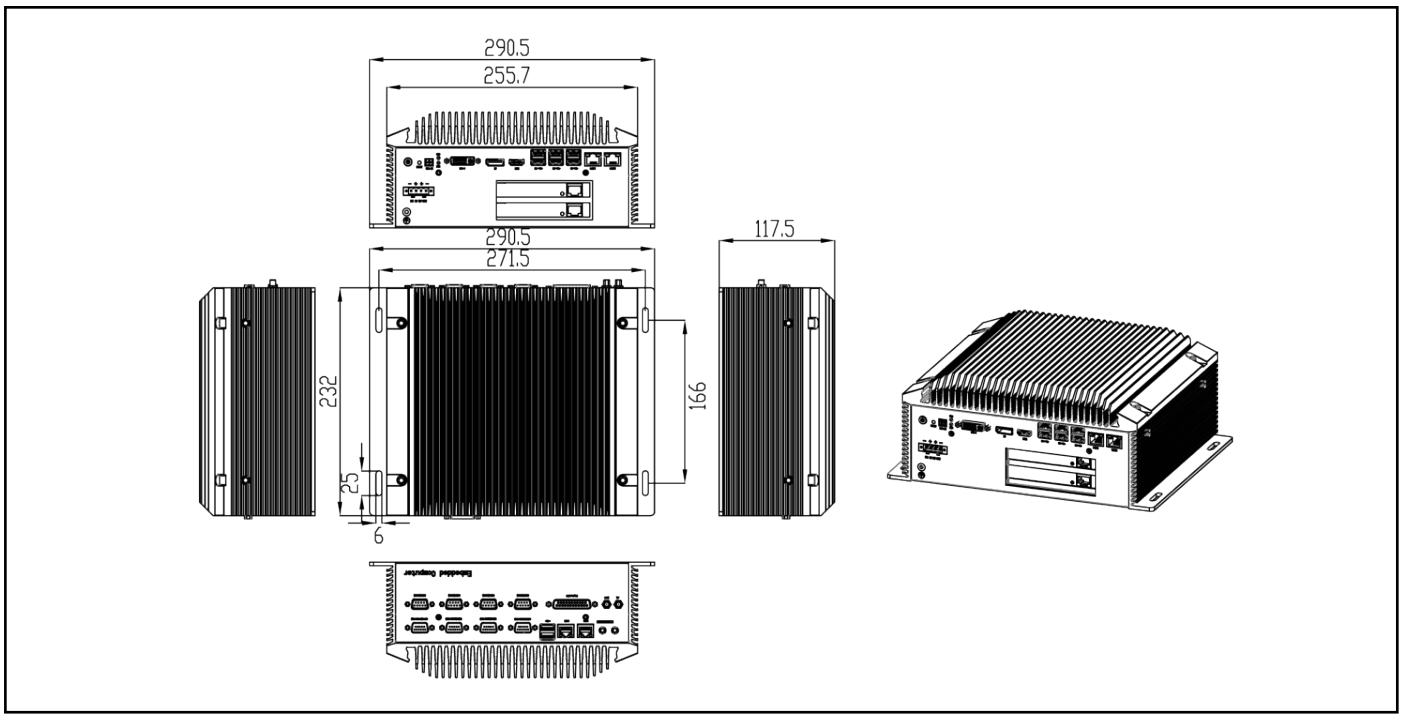
Intel Chipset B365						
CPU	Core	Threads	Frequency	Cache	Graphics	RAM
i3-8100	4	4	3.60GHz	6 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i3-8100T	4	4	3.10GHz	6 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i3-8300	4	4	3.70GHz	8 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i3-8300T	4	4	3.20GHz	8 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-8400	6	6	2.80-4.00GHz	9 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-8400T	6	6	1.70-3.30GHz	9 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-8500	6	6	3.00-4.10GHz	9 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-8500T	6	6	2.10-3.50GHz	9 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-8600	6	6	3.10-4.30GHz	9 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-8600K	6	6	3.60-4.30GHz	9 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-8600T	6	6	2.30-3.70GHz	9 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i7-8086K	6	12	4.00-5.00 GHz	12 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i7-8700	6	12	3.20-4.60 GHz	12 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i7-8700T	6	12	2.40-4.00 GHz	12 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i7-8700K	6	12	3.70-4.70 GHz	12 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i3-9100	4	4	3.60-4.20GHz	6 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i3-9100T	4	4	3.10-3.70GHz	6 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i3-9300	4	4	3.70-4.30GHz	8 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i3-9300T	4	4	3.20-3.80GHz	8 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i3-9320	4	4	3.70-4.40GHz	8 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i3-9350K	4	4	4.00-4.60GHz	8 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-9400	6	6	2.90-4.10GHz	9 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-9400T	6	6	1.80-3.40GHz	9 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-9500	6	6	3.00-4.40GHz	9 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot

Intel Chipset B365						
CPU	Core	Threads	Frequency	Cache	Graphics	RAM
i5-9500T	6	6	2.20-3.70GHz	9 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-9600	6	6	3.10-4.60GHz	9 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-9600T	6	6	2.30-3.90GHz	9 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i5-9600K	6	6	3.70-4.60GHz	9 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i7-9700	8	8	3.00-4.70 GHz	12 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i7-9700T	8	8	2.00-4.30 GHz	12 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i7-9700K	8	8	3.60-4.90 GHz	12 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i9-9900	8	16	3.10-5.00 GHz	16 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i9-9900T	8	16	2.10-4.40 GHz	16 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i9-9900K	8	16	3.60-5.00 GHZ	16 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot
i9-9900KS	8	16	4.00-5.00 GHz	16 MB	UHD Graphics 630	Max to 64GB for 2*DDR4 Slot

System Information

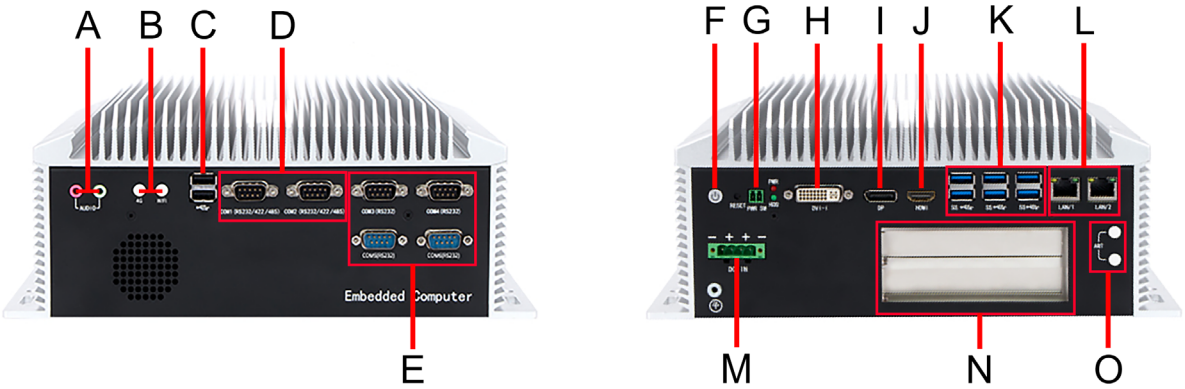
Chipset	CPU	Specification
B85	Celeron-G Series	Windows XP / 7 / 10 and Linux
	4th	Windows 7 / 10 and Linux
B365	6th / 7th	
	8th / 9th	Windows 10 / 11 and Linux
	Celeron-G series	

Dimensions



I/O Port

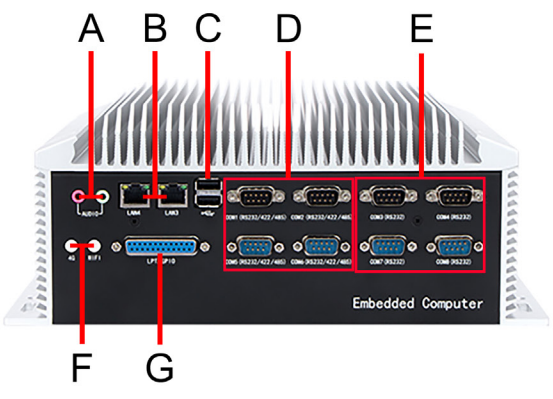
Model I600-BI(2E)

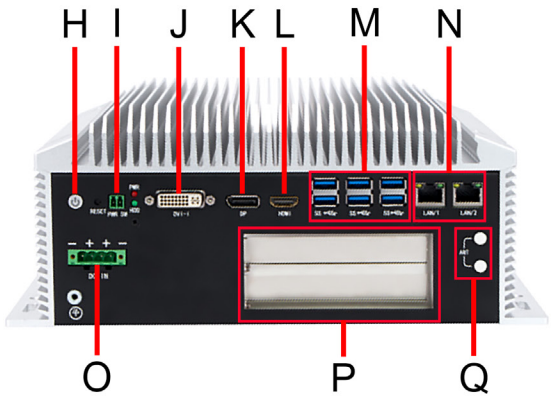


A : SPK+MIC
B : 4G+WIFI
C : USB2.0
D : COM (RS-232/422/485)
E : COM (RS-232)
F : POWER
G : POWER SW
H : DVI
I : Display Port
J : HDMI
K : USB3.0
L : LAN
M : DC POWER IN
N : Expansion
O : ANT1-2

I/O Port

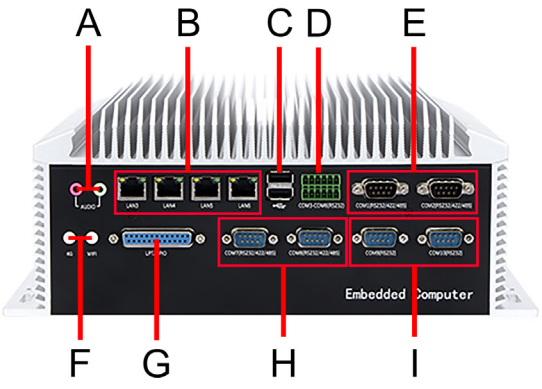
Model I600-BI(4E)

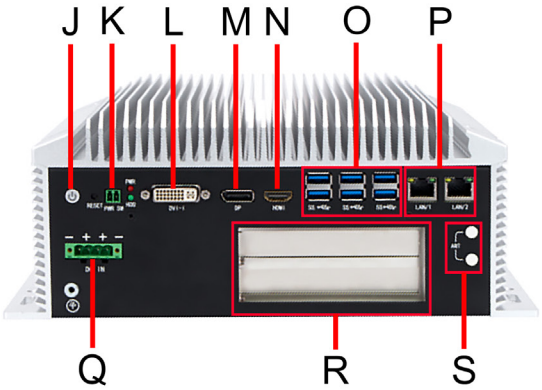




A : SPK+MIC
B : LAN
C : USB2.0
D : COM (RS-232/422/485)
E : COM (RS-232)
F : 4G+WIFI
G : LTP/GPIO
H : POWER
I : POWER SW
J : DVI
K : Display Port
L : HDMI
M : USB3.0
N : LAN
O : DC IN
P : Expansion
Q : ANT1-2

Model I600-BI(6E)





A : SPK+MIC
B : LAN
C : USB2.0
D : COM Terminal (RS-232)
E : COM (RS-232/422/485)
F : 4G+WIFI
G : LTP/GPIO
H : COM (RS-232/422/485)
I : COM (RS-232)
J : POWER
K : POWER SW
L : DVI
M : Display Port
N : HDMI
O : USB3.0
P : LAN
Q : DC IN
R : Expansion
S : ANT1-2

Package List

Adapter	1*12V 10A Adapter
Power Cable	1*Power Cable (The type is depends on the national standard of the buyer)
Terminal	2 Pin Phoenix Terminal for Power

Applications



Factory Automation



Machine Control



Robotic Automation