

MODEL. I580-BI

Fanless Design Industrial Box PC

Introduction

I580-BI Embedded Fanless Industrial Box PC adopts wide voltage design, overvoltage and overcurrent protection. Support Windows/Linux operating system, onboard J1900,I3/I5/I7 4th generation processors, support 4G/5G Internet access function, meet communication requirements (need to select module separately), Support Wifi and Bluetooth dual communication (need to select module separately), support 6 serial ports 4*RS-232/2*RS-232/422/485 to meet the use of basic peripherals. DC-12V power input (optional DC 9-36V).

iDEETECH

I580-BI

INDUSTRIAL BOX PC

POWERFUL. RELIABLE. BUILT FOR INDUSTRY



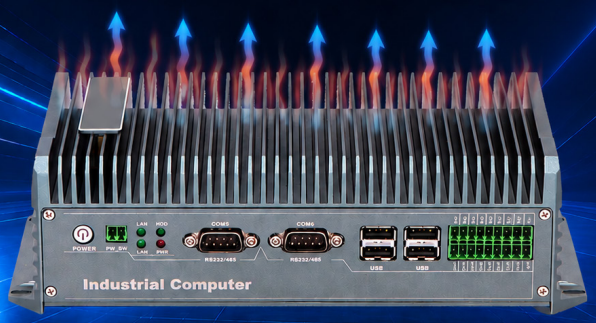
All aluminum alloy heat dissipation

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:

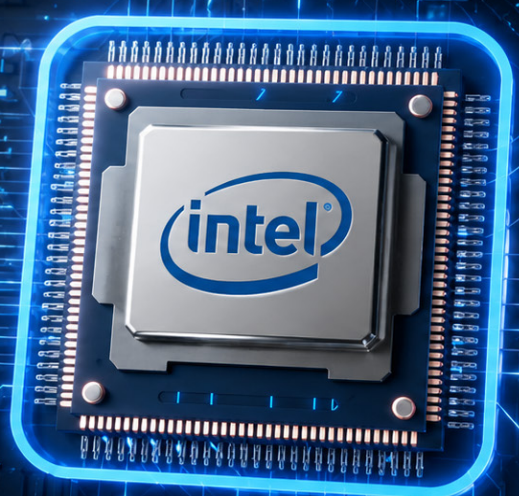
-20°C TO +70°C

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.



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



Network card + Wireless

FREE INTERNET

Support Gigabit network adapter RJ45, wireless WiFi Internet access, experience faster and more stable network experience, no network cable, no wiring trouble

Gigabit network port

Wireless network support



- **HIGH SPEED** Gigabit network, faster and stable
- **STABLE CONNECTION** Reliable performance, 24/7 operation
- **WIRELESS SUPPORT** WiFi access, no cable no wiring trouble
- **INDUSTRIAL GRADE** Fanless design, wide temperature support

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	I580-BI
CPU	J1900 / i3-4010U / i5-4260U / i7-4650U
Memory	1*DDR3 RAM Slot, Up to 8GB
Storage	1*MSATA SSD Slot 1*SATA SSD Slots
Display	1*HDMI: Resolution up to 3280*2000@60Hz 1*VGA: Resolution up to 1920*1200@60Hz
Expansion	2*Mini PCIE Slots, Support 4G and WIFI module
Ethernet	2*Realtek 8111E LAN Chip (10 / 100 / 1000 Mbps, RJ-45 Type)
USB	4*USB 2.0 (Type-A) 4*USB 3.0 (Type-A)
COM	2*RS-232 / 422 / 485 (DB9 Type) 4*RS-232 (DB9 Type)
GPIO	14 ports GPIO (7*GPI+7*GPO, Phoenix Terminal Type)
Audio	1*Line-In+1*Line-Out

Fittings Information

RAM	DDR3	4GB / 8GB
Storage	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	

Device Specification

BIOS	AMI UEFI BIOS
Power Input	DC 12V With Overvoltage Protection (Support optional Wide Voltage Power Module)
	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	239mm*125mm*58mm
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	CPU	LAN	USB	COM	Display	RAM	SSD	Expansion	Power
I580-BI	J1900	2	8	2*RS-232 422/485 4*RS-232	1*HDMI 1*VGA	1*DDR 3 Up to 8GB	1*MSATA 1*SATA	2*Mini PCIE	DC 12V
	i3-4010U								
	i5-4260U								
	i7-4650U								

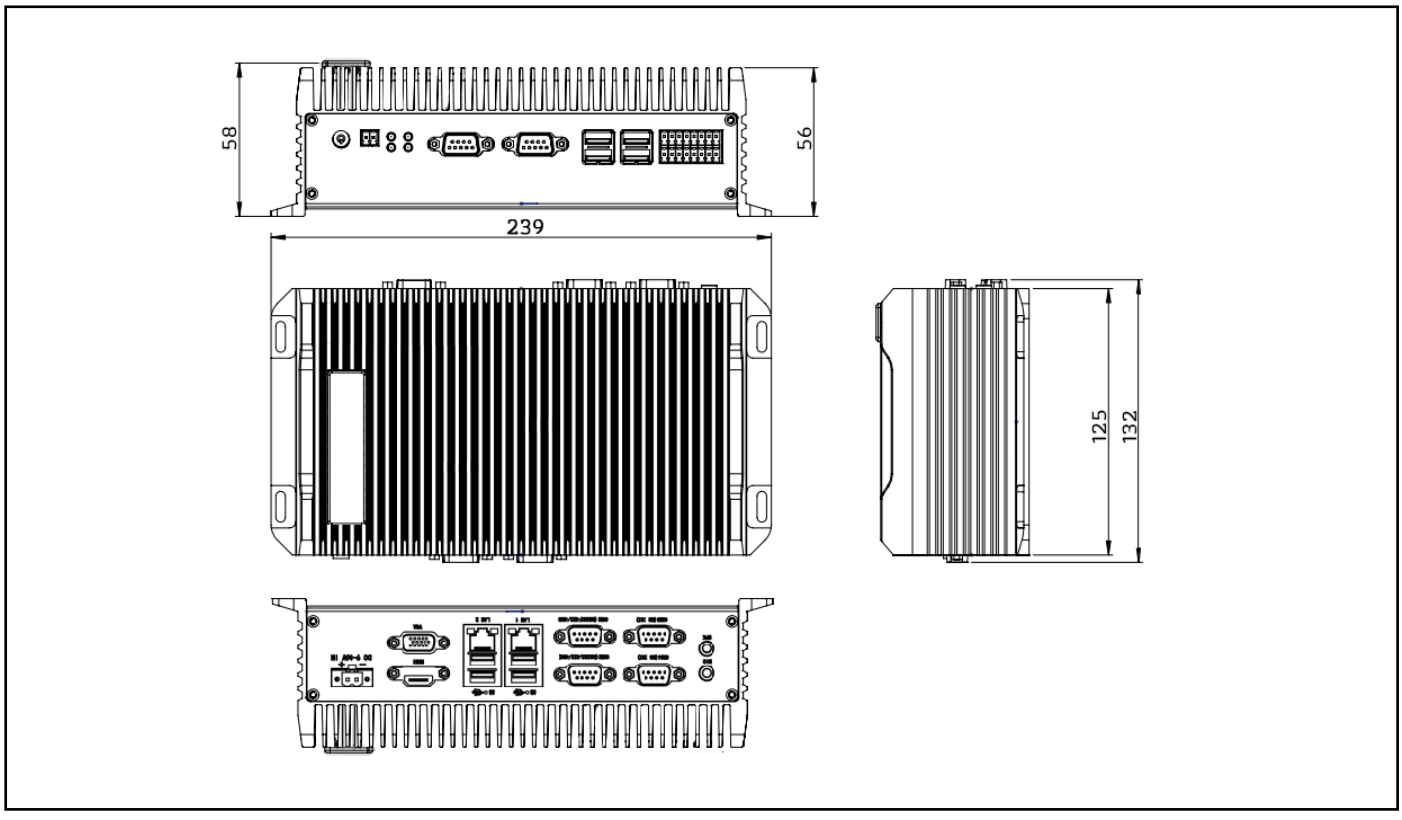
CPU Information

CPU	Core	Threads	Frequency	Cache	Graphics	RAM
Celeron J1900	4	4	2.00-2.42GHz	2 MB	HD Graphics	Max to 8GB for 1*DDR3 slot
i3-4010U	2	4	1.70GHz	3 MB	HD Graphics 4400	Max to 8GB for 1*DDR3 slot
i5-4260U	2	4	1.40-2.70GHZ	3 MB	HD Graphics 5000	Max to 8GB for 1*DDR3 slot
i7-4650U	2	4	1.70-3.30GHz	4 MB	HD Graphics 5000	Max to 8GB for 1*DDR3 slot

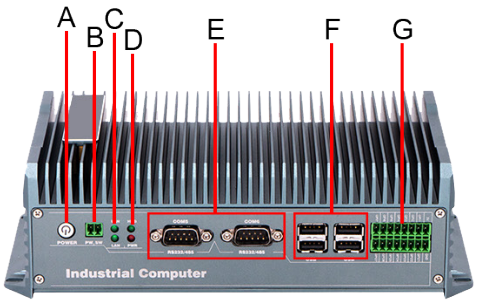
System Information

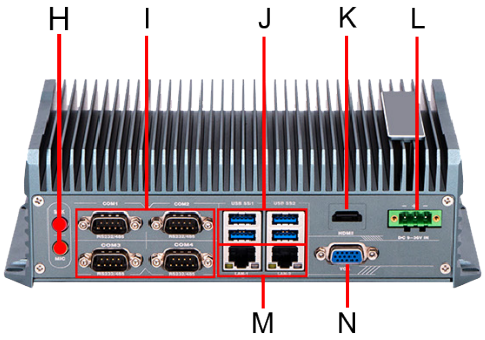
CPU	Specification
J1900 / 4th	Windows 7 / 10 and Linux

Dimensions



I/O Port





A : Power
B : Power Sw
C : LAN Poilct lamp
D : HDD/PWR Poilct lamp
E : COM (RS-232/422/485)
F : USB 2.0
G : GPIO
H : SPK+MIC
I : COM (RS-232)
J : USB 3.0
K : HDMI
L : DC POWER IN
M : LAN
N : VGA

Package List

Adapter	1*12V 5A 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

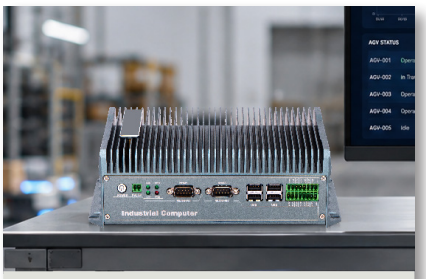
Applications



Factory Automation



IoT Gateway



AGV/AMR Control