

MODEL. I540-BI

Fanless Design Industrial Box PC

Introduction

I540-BI series Industrial Water Proof Box PC is an industrial machine with powerful functions, strong scalability and excellent performance. The rugged design ensures the product is strong and durable and can withstand harsh environments. It uses high-performance Intel processors, supports 6-10th Core processors, and has efficient processing capabilities to meet users' pursuit of performance. In addition, I540-BI supports a variety of expansion modules, such as GMS and Wi-Fi expansion, to meet users' different expansion needs.

iDEETECH

I540-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:

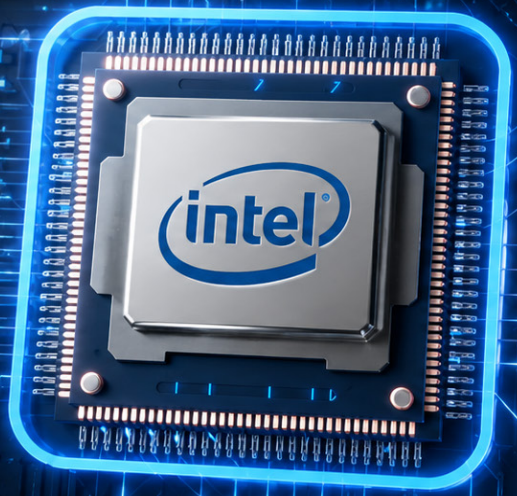
-20°C TO +70°C

- 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.

Efficient Cooling

24/7



Stable Performance | Industrial Grade | 24/7 Operation | Harsh Environment Ready

IP66
ALL WATERPROOF
AVIATION PLUG



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.



Applications

















POWERFUL
COMPATIBILITY SYSTEM

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









Specification

Mother Board Specification

Model	I540-BI	
CPU	Celeron J1900 i5-4260U	Celeron J6412 i5: 6200U / 7200U / 8260U / 10210U i7-7500U / 10710U
Memory	1*DDR3 RAM Slot, Up to 8GB	1*DDR4 RAM Slot, Up to 16GB
Storage	1*MSATA SSD Slot	
Display[1]	1*VGA: Resolution up to 1920*1200@60Hz	
Expansion	1*Mini PCIE Slot + 1*M.2 Slot, Support 4G/5G and WIFI module	
Ethernet[2]	2*Intel i210-AT LAN Chip (10 / 100 / 1000 Mbps, M12 Type)	
USB[3]	4*USB 2.0 (M12)	
COM[4]	2*RS-232 / 422 / 485 (M12 Type) 4*RS-232 (M12 Type)	
GPIO[5]	8 ports GPIO (4*GPI+4*GPO, M12 Type, optional)	

Note:

[1][2][3][4][5]: All ports will be welded to M12 type: 1*VGA port=1*M12 port, 1*Ethernet port=1*M12 port, 2*USB ports=1*M12 port, 2*COM ports=1*M12 port

Default configuration: 1*Power supply port+2*Ethernet ports+4*USB ports+1*RS-485+1*RS-232 ports+1*VGA port (Total 7*M12 ports), Please inform the sales person of the specific specifications you require if you require interfaces beyond the default configuration.

Fittings Information

RAM	DDR3	4GB / 8GB
	DDR4	4GB / 8GB / 16GB / 32GB
Storage	MSATA	64GB / 128GB / 256GB / 512GB / 1TB
GSM Module	4G	4G+GPS
	5G	5G+GPS
WIFI Module	7260AN / 7260AC / AX210	
CAN BUS Module	2*CAN BUS interfaces	

Device Specification

BIOS	AMI UEFI BIOS
Power Input	DC 9-36V With Overvoltage Protection
	Support Auto-Start
	M12 Type DC Plug
Watch Dog	Support
Working Temperature	-20℃ - 70℃ , Support 24/7 Working
Storage Temperature	-30℃ - 80℃
Humidity	90% (20±50℃)
Size	260mm*152mm*43mm
Structure	Fully Enclosed Aluminum Alloy Material
Heat dissipation	Fanless Design, Conduction Heat Dissipation
Installation	Desktop / Embedded / Wall-Mounted
System	Windows and Linux
Protection	Full IP66 Water Proof (EN60529:1991+A1:2000+A2:2013)

Ordering Information

Model	CPU	LAN	USB	COM	Display	RAM	SSD	Expansion	Power
I540-BI	J1900 / 4th	2	4	2*RS-232/422/485 4*RS-232	1*VGA	1*DDR 3 Up to 8GB	1*MSATA	1*Mini PCIE 1*M.2	DC 9-36V
	J6412 / 6th / 7th					1*DDR 4 Up to 16GB			
	8th / 10th					1*DDR 4 Up to 32GB			

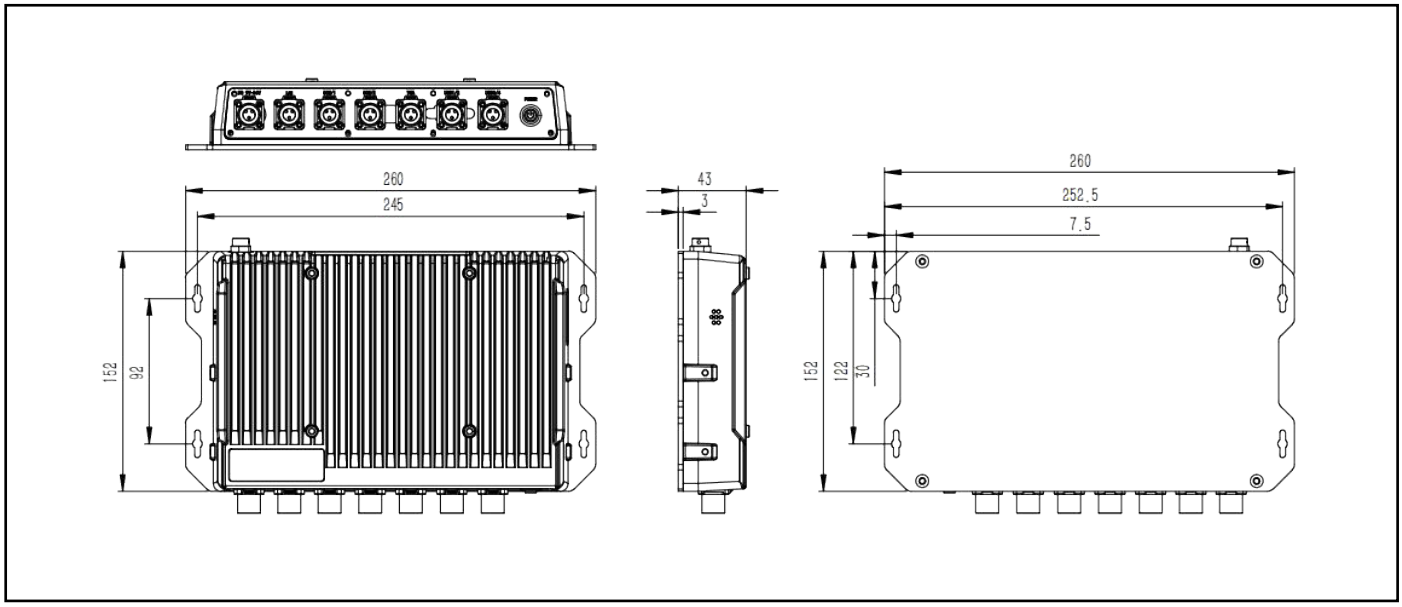
CPU Information

CPU	Core	Threads	Frequency	Cache	Graphics	RAM
J1900	4	4	2.00-2.42GHz	2 MB	HD Graphics	Max to 8GB for 1*DDR3 slot
J6412	4	4	2.00-2.60GHz	1.5 MB	UHD Graphics	Max to 16GB for 1*DDR4 slot
i5-4260U	2	4	1.40-2.70GHz	3 MB	HD Graphics 5000	Max to 8GB for 1*DDR3 slot
i5-6200U	2	4	2.30-2.80GHz	3 MB	HD Graphics 520	Max to 16GB for 1*DDR4 slot
i5-7200U	2	4	2.50-3.10GHz	3 MB	HD Graphics 620	Max to 16GB for 1*DDR4 slot
i7-7500U	2	4	2.70-3.50GHz	4 MB	HD Graphics 620	Max to 16GB for 1*DDR4 slot
i5-8260U	4	8	1.60-3.90GHz	6 MB	UHD Graphics 620	Max to 32GB for 1*DDR4 slot
i5-10210U	4	8	1.60-4.20GHz	6 MB	UHD Graphics	Max to 32GB for 1*DDR4 slot
i7-10710U	6	12	1.10-4.70GHz	12 MB	UHD Graphics	Max to 32GB for 1*DDR4 slot

System Information

CPU	Specification
J1900 / 4th / 6th / 7th	Windows 7 / 10 and Linux
J6412 / 8th / 10th	Windows 10 / 11 and Linux

Dimensions



I/O Port

Model I540-BI



A : DC POWER IN
B : LAN1
C : LAN2
D : COM1
E : COM2
F : USB1-2
G : USB3-4
H : POWER

Package List

Adapter	1*12V 5A Adapter
Power Cable	1*Power Cable (The type is depends on the national standard of the buyer)
M12 Cable-1	M12 port cable for Ethernet
M12 Cable-2	M12 port cable for Ethernet
M12 Cable-3	M12 port cable for USB
M12 Cable-4	M12 port cable for USB
M12 Cable-5	M12 port cable for VGA
M12 Cable-6	M12 port cable for COM

Applications



Industrial Automation



Outdoor Signage & Vending



Fleet Management