

MODEL. I400-BI

Fanless Design Industrial Box PC

Introduction

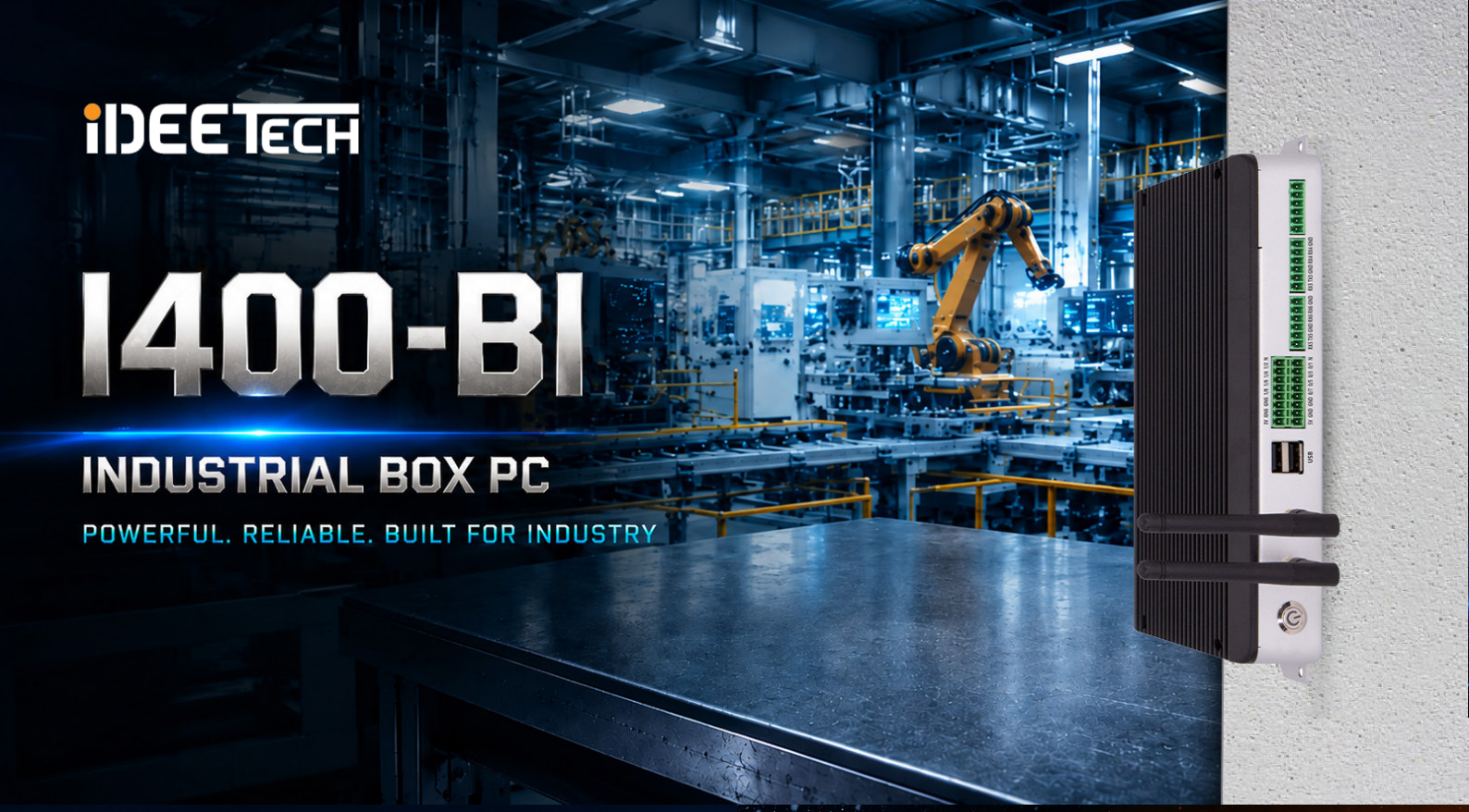
I400-BI Android Industrial Mini PC has a range of connectivity options; RJ45, Micro SD card, USB (USB OTG), USB, Audio, Recover, DCIN, RS232x 2, Antenna WIFI. I400-BI is the Android-based platform Industrial Fanless Mini PC uses its aluminum alloy case to dissipate the heat into the air to avoid overheating issues. Fanless design offers zero noise during 7/24 operation under harsh environments.

iDEETECH

I400-BI

INDUSTRIAL BOX PC

POWERFUL. RELIABLE. BUILT FOR INDUSTRY



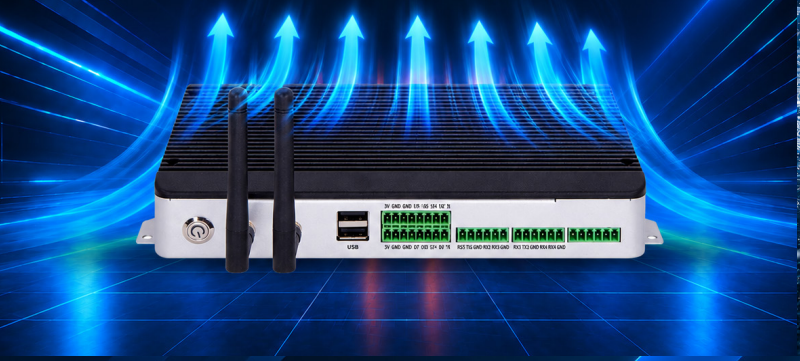
All aluminum alloy heat dissipation

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

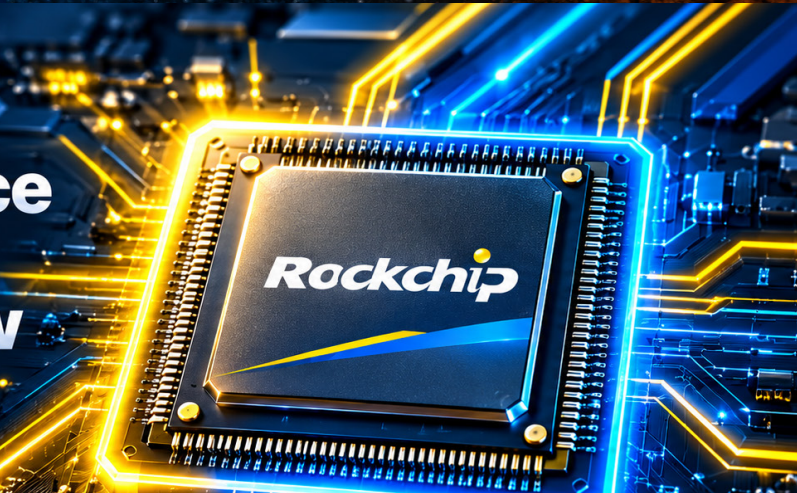
WIDE TEMPERATURE -20°C TO 70°C | RUGGED & RELIABLE | DUST RESISTANT | ALL-ALUMINUM ALLOY | LONG-TERM STABILITY



Rockchip

Powerful Performance
Smarter Solutions
for a Better Tomorrow

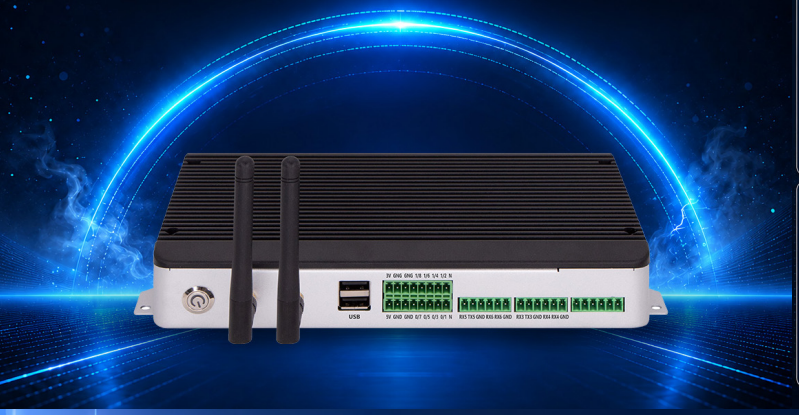
Rockchip's Advanced Chip Solutions Deliver High Performance, Low Power and Reliable Stability for Industrial, Smart and Connected Applications.



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.



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.



Multiple OS Optional

Smoothly run Android12.0 system, adapt to Linux/Ubuntu/Debian and other mainstream systems, provide system call interface API reference code and technical support, flexible custom development performance, suitable for a richer software ecosystem.

- **Android**
- **Linux** Ubuntu / Debian
- **API** Reference Code
- **Technical Support** Professional Service
- **Flexible Custom Development**
- **Richer Software Ecosystem**

POWERFUL

COMPATIBILITY SYSTEM

Compatible with Linux / Android





Specification

Mother Board Specification

Model	I400-BI					
CPU	Rockchip RK3568			Rockchip RK3588		
NPU	None			6 Tops (Support optional Computing Power Card, up to 20 or 32 Tops)		
Memory	LPDDR4, On board					
	2GB	4GB	8GB	4GB	8GB	16GB
Storage	32GB	64GB	128GB	64GB	128GB	256GB
	1*MSATA SSD Slot + 1*TF Card Slot			1*M.2 NVME Slot (2242) + 1*TF Card Slot		
Display	1*HDMI: Resolution up to 4096*2304@60Hz			2*HDMI: Resolution up to 4096*2304@60Hz 1*DP: Resolution up to 4096*2160@60Hz		
Expansion	1*Mini PCIE Slot, Support 4G module					
Ethernet	2*Realtek 1 Gbps Ethernet Controller (10 / 100 / 1000 Mbps, RJ-45 Type)			2*RTL811F LAN Chip (10 / 100 / 1000 Mbps, RJ-45 Type)		
USB	2*USB 3.0 (Type-A) + 4*USB 2.0 (Type-A)			4*USB 3.0 (Type-A) + 2*USB 2.0 (Type-A) 1*USB 3.0 (Type-C, OTG)		
COM	2*RS-232 / 485 (DB9 Type) 4*RS-232 (Phoenix Terminal Type)			2*RS-232 / 485 (DB9 Type) 4*RS-232 (Phoenix Terminal Type		
GPIO	8 ports GPIO (4*GPI+4*GPO, phoenix terminal type)					
DIDO	8 ports DIDO (4*DI+4*DO, phoenix terminal type, optional)					
Audio	1*Audio Codec with MIC / Line-out and Amplifier					
Wireless	WIFI Module on board, Support WIFI and Bluetooth					
CAN BUS	2*CAN BUS Ports (Optional)					

Fittings Information

Model. I400-BI Rockchip RK3568		
Storage	MSATA	32GB / 64GB / 128GB / 256GB / 512GB / 1TB
	TF Card	64GB / 128GB / 256GB / 512GB / 1TB
GSM Module	4G	4G+GPS
Model. I400-BI Rockchip RK3588		
Storage	M.2 NVME	128GB / 256GB / 512GB / 1TB / 2TB / 4TB
	TF Card	64GB / 128GB / 256GB / 512GB / 1TB
GSM Module	4G	4G+GPS
Computing Card	13 Tops / 26 Tops	

Device Specification

Power Input	DC 12V With Overvoltage Protection (Support Optional DC 9-36V Wide Voltage Power Module)
	Support Auto-Start
	2 Pin Phoenix Terminal Type DC Plug
Working Temperature	-20℃ - 70℃ , Support 24/7 Working
Storage Temperature	-30℃ - 80℃
Humidity	90% (20±50℃)
Size	213mm*138mm*38mm
Structure	Fully Enclosed Aluminum Alloy Material
Heat dissipation	Fanless Design, Conduction Heat Dissipation
Installation	Desktop / Embedded / Wall Mount
System	Android and Linux

Ordering Information

Model	CPU	LAN	USB	COM	Display	GPIO	RAM	SSD		Expansion	Power
I400-BI	RK3568	2	6	2*RS-232/485 4*RS-232	1*HDMI	8	2GB	32GB	1*MSATA 1*TF	1*Mini PCIE	DC 12V
							4GB	64GB			
							8GB	128GB			
	RK3588	2	7	2*RS-232/485 4*RS-232	2*HDMI 1*DP		4GB	64GB	1*M.2 1*TF		
							8GB	128GB			
							16GB	256GB			

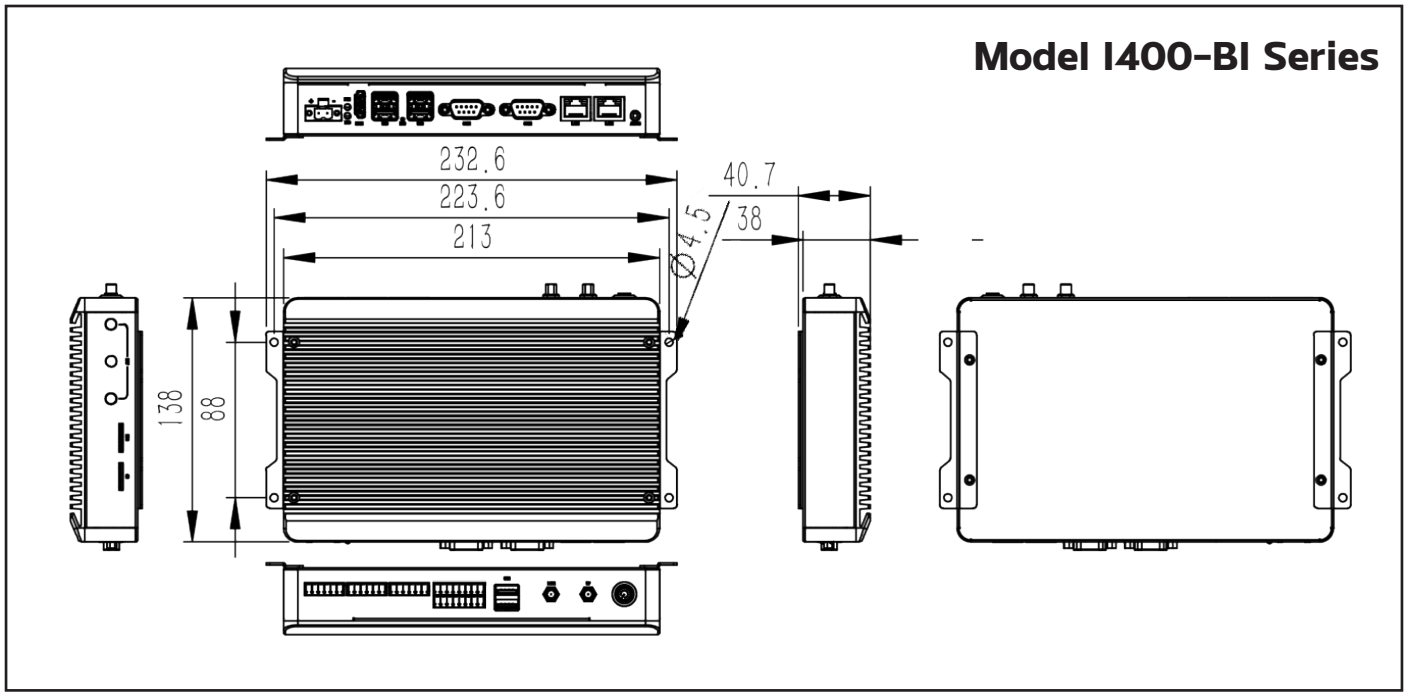
CPU Information

CPU	Specification	
RK3568	Quad-Core Cortex-A55, up to 2.0GHz	
RK3588	Quad core Cortex-A76 + Quad-core Cortex-A55, up to 2.40GHz	
	GPU	Mail-G610
	NPU	6 Tops

System Information

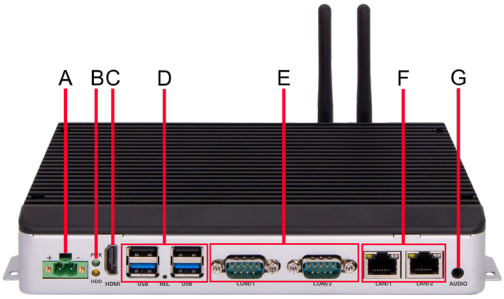
CPU	Specification
Rockchip RK3568	Max to Android 11 and Linux Ubuntu 22.04
Rockchip RK3588	Max to Android 13 and Linux Ubuntu 22.04

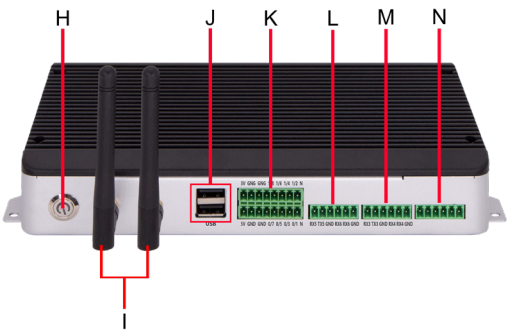
Dimensions



I/O Port

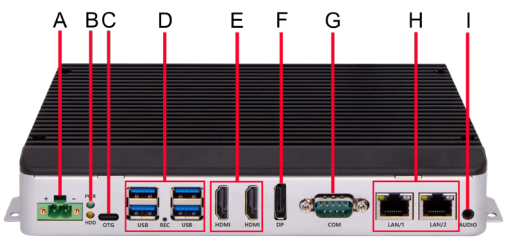
Model I400-BI RK3568

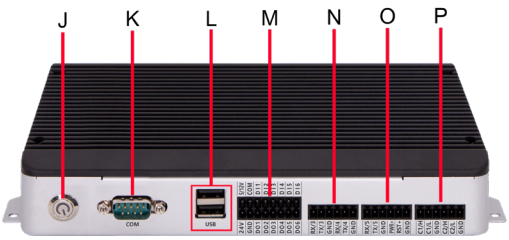




A : DC Power Input
B : PWR+HDD Poilct lamp
C : HDMI
D : USB2.0+USB3.0
E : COM (RS-232/485)
F : LAN
G : Audio
H : Power
I : ANT1-2
J : USB2.0
K : GPIO / DIDO
L : COM (Terminal)
M : COM (Terminal)
N : CAN BUS

Model I400-BI RK3588





A : DC Power Input
B : PWR+HDD Poilct lamp
C : USB 3.0 (Type-C, OTG)
D : USB3.0 (Type-A)
E : HDMI
F : DP
G : COM (RS-232/485)
H : LAN
I : Audio
J : POWER
K : COM (RS-232/485)
L : USB2.0 (Type-A)
M : GPIO / DIDO
N : COM (Terminal)
O : COM (Terminal)
P : CAN BUS

Package List

Adapter	1*12V 5A adapter
Power Cable	1*Power Cable (The type is depends on the national standard of the buyer)
Antenna	1*Antenna for WIFI

Applications



Industrial Automation



Smart Digital Signage



Self-Service Kiosks