

Intelligent Industrial Host

Compact design & Powerful chip



Rich
interface



Metal
body



Dual
display



24H
operation



Powerful
Chip



Guangzhou TouchWo Electronics Co., Ltd.



Product Overview

Touchwo Mini Industrial Control Host is an excellent product that meets the diverse needs of various scenarios. We have carefully created three categories: commercial host, industrial control host, and domestic host, each with its unique advantages and applicable fields.

Commercial Host: lightweight and portable, with a variety of colors and a strong metallic feel. Support VESA interface, flexible matching, saving space for your office environment. Suitable for offices, car showrooms, hotel lobbies, express lockers, paperless meetings, shopping malls, supermarkets, and other places.

Industrial Host: stable and reliable, designed for industrial environments. Multiple networks and multiple serial ports, paired with GPIO interfaces, meet the installation requirements of industrial communication equipment. Supports the operation of PLCs from different brands and can also be used as soft routers. Fully enclosed form, dustproof, moisture-proof, silent, collision resistant, corrosion-resistant, supports 7X24H uninterrupted operation. Suitable for industries such as industrial vision, industrial production workshops, CNC machine tools, and smart healthcare.

Touchwo Mini Industrial Host provides comprehensive support for your different needs, creating safe, reliable, and flexible solutions.



Product Classification

01 Commercial Host (BH)

- a. Commercial Host Android (BHA)
- b. Commercial Host PC (BHD)

02 Industrial Host (IH)

- a. Industrial Host Subminiature (IHS)
- b. Industrial Host Advance (IHA)
- c. Industrial Host Professional (IHP)



BH Series·Commercial Host

BH Commercial Mainframe Box

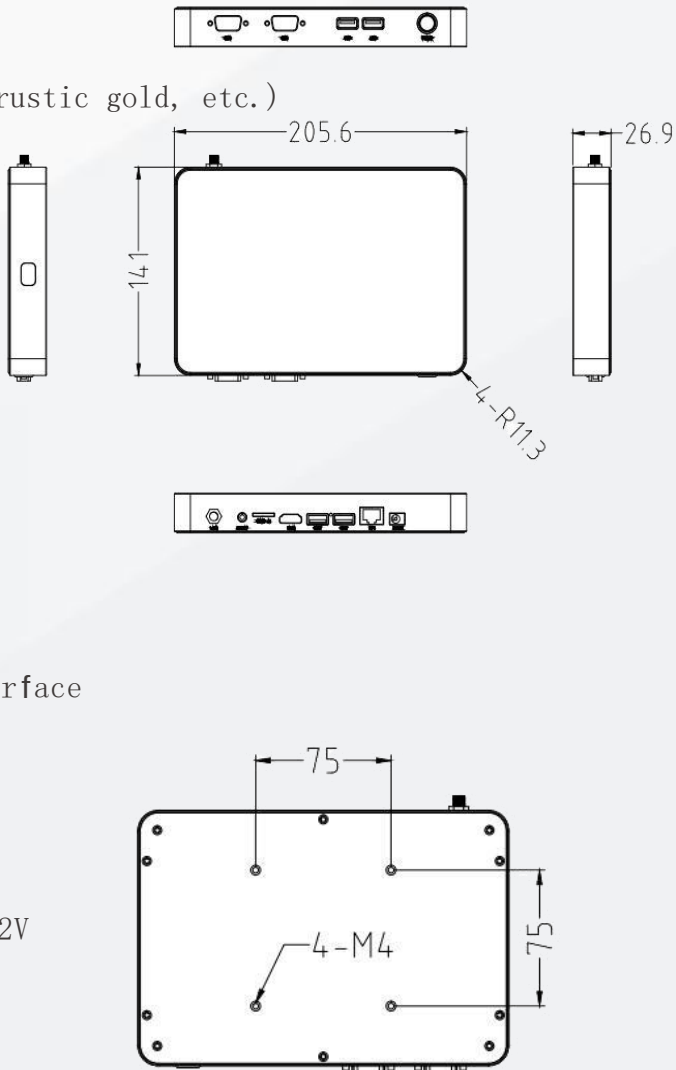
Android Host BHA-1-2140



Product Features

- ★ 2*TTL
- ★ Private model & color customization
- ★ Supports VESA, desktop, and wall mounted installation methods
- ★ Ultra thin and compact, made of all aluminum alloy material, corrosion-resistant and moisture-proof
- ★ Fanless structural design, silent and dustproof, earthquake resistant and impact resistant
- ★ Support Android system customization and provide system API interface code
- ★ Support remote control & network timed on/off

Model	BHA- 1-2140	
Case	Material	All aluminium alloy fanless
	Color	Gloss black (available in industrial grey, rustic gold, etc.)
	Size	205.6*141*26.9 (mm)
Mother-board	CPU	RK3288
	Display	Mali-T764
	RAM	LPDDR 2GB (4GB Optional)
	ROM	EMMC 8G (16G/32G/64G Optional)
IO/Interface	POWER	1*Power switch
	USB	4*USB2.0
	COM	2*TTL (RS232 Optional)
	WIFI	WIFI-2.4G/BT-4.1 (5G Optional)
	Audio	Supports left and right channels, MIC interface
	Memory card	TF Memory Card
	HDMI	HDMI2.0 Supports up to 4K@60HZ output
	LAN	10M/100 Adaptive Ethernet
System	Power	1* DC power adapter interface, support DC12V
EnViron-ments	System	Android 7.1.2
	Working Temperature	-5℃~50℃
	Storage Temperature	-20℃~70℃
	Relative Humidity	5%-95% Relative humidity, non-condensing



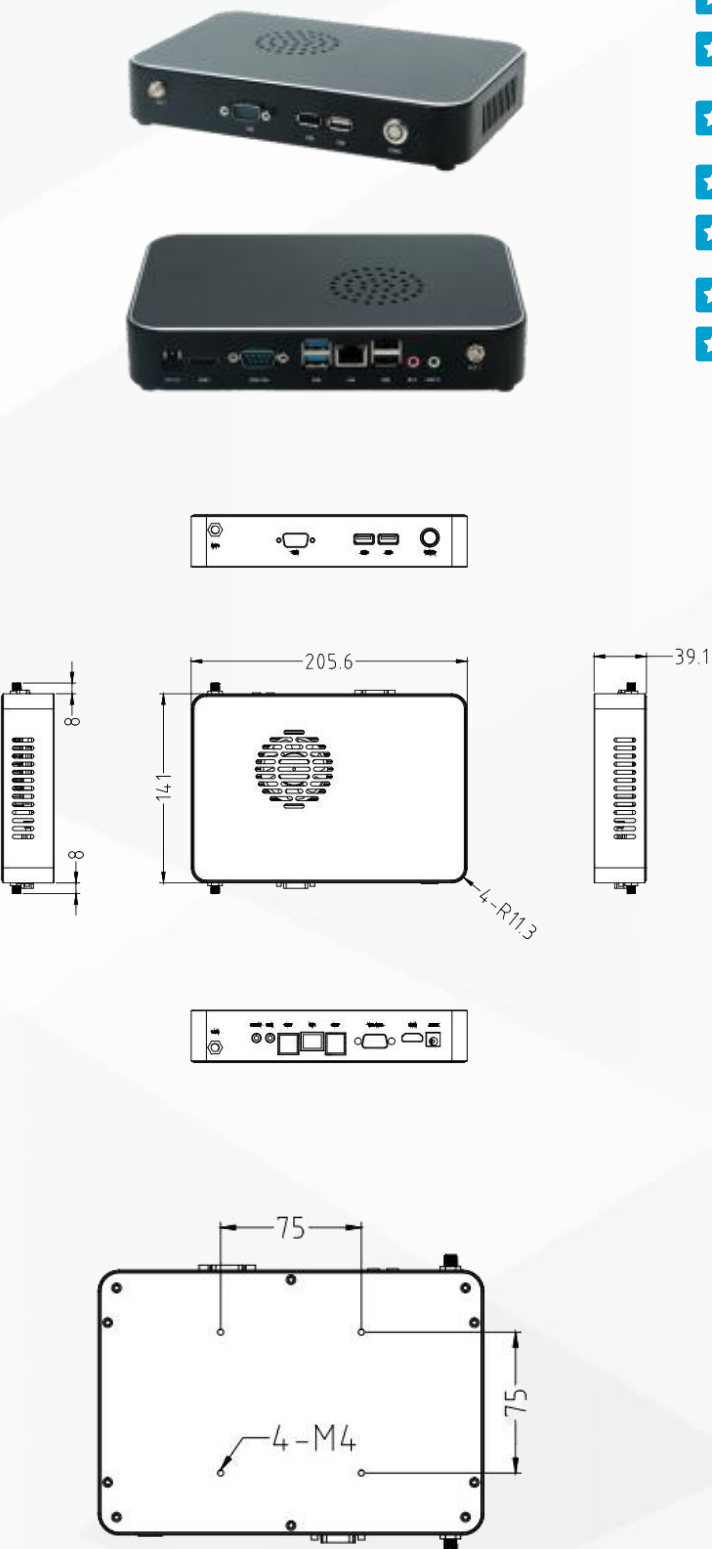
Order Configuration

Chip	RAM	ROM	Operating system
RK3288	2G/4G	16G/32G/64G	Android 7.1.2 / 9.0
RK3568	2G/4G	16G/32G/64G	Android 11(Customizable HarmonyOS 3.2)
RK3399	2G/4G	16G/32G/64G	Android 7.1.2 / 9.0
RK3588	4G/8G	32G/64G/128G	Android 12 (Customizable Ubuntu20.04)

Product Features

- ★ Private model & color customization
- ★ 2*RS232 (COM1 can be switched to RS485)
- ★ Ultra-thin and compact, all-aluminum alloy, orrosion-resistant and moisture-proof.
- ★ Supports VESA, desktop, and wall mounted installation methods
- ★ Support power on, timed power on, PXE, and network wake-up functions
- ★ WatchDog Support hardware reset function(256 levels, 0~255s)
- ★ Fan structure design, circular heat dissipation holes, easily solve the heat dissipation problem of high-power CPUs

Model	BHD-1-2160	
Case	Material	All aluminium alloy fanless
	Color	Gloss black (available in industrial grey, rustic gold)
	Size	204*135.4*33.7 (mm)
Mother-board	CPU	Integrated with Intel ®TigerLakeI5-1135G7/2.4GHz four Core Eight Thread Processor TDP28W
	Display	Integrate IntelIrisXeGraphics Support DirectX12. 1 OpenGL4.6
	RAM	1*DDR4 3200MHz, MAX32GB
	ROM	1*MSATA SSD, Transmission speeds up to 6Gbps
	POWER	1* Power switch
IO/Interface	USB	4*USB2.0, 2*USB3.0
	COM	2*RS232(can be switchable to 1*RS485)
	WIFI	WIFI-2.4G/BT-4.1 (5G Optional)
	Audio	1*LineOut, 1*MicIn
	HDMI	HDMI1.4 Supports up to 4K@30HZ output
	LAN	10M/100M/1000M Adaptive Ethernet
	Power	1* DC power adapter interface, suppor DC12V
System	Windows10/11、Ubuntu	
Environ-ments	Working Temperature	- 5℃~50℃
	Storage Temperature	-20℃~70℃
	Relative Humidity	5%-95% Relative humidity, non-condensing



Order Configuration

Chip	RAM	ROM	Operating system
N5095	4G/8G/16GB	128G/256G/512GB/1TB	Windows10/11、Ubuntu
Core™ 3 I5	4G/8G/16GB	128G/256G/512GB/1TB	XP、Windows7/8/10/11、Linux
Core™ 4 I5	4G/8G/16GB	128G/256G/512GB/1TB	Windows7/8/10/11、Linux
Core™ 6 I5	4G/8G/16GB	128G/256G/512GB/1TB	Windows7/8/10/11、Linux
Core™ 11 I5	4G/8G/16G/32GB	128G/256G/512GB/1TB	Windows10/11、Ubuntu

IH Series·Industrial Host
PCAP Touch Floor-stand Signage

BH

Product Features

- ★ All aluminium alloy, corrosion and vibration resistant ;
- ★ Fan structure design, scale heat dissipation structure, easily solves the heat dissipation problem of high-power CPU;
- ★ 2*RS232 (COM1 can be switchable to RS485)
- ★ Supports desktop, and wall mounted installation methods
- ★ Support power on, timed power on, PXE, and network wake-up functions
- ★ WatchDog support hardware reset function(256levels, 0~255s)
- ★ Support 4-in-4-out GPIO interface

Model	IHS-1-216G	
Case	Material	All aluminium alloy fanless
	Color	Gloss black (available in industrial grey)
	Size	237*140.5*64 (mm)
Mother-board	CPU	Integrated Intel®JasperLakeN5095/2.0GHz Quad-Core Quad-Thread Processor TDP15W
	Display	Integrated IntelUHDGraphics Support DirectX12 OpenGL4.5
	RAM	1*DDR4 2933MHz , MAX8GB
	ROM	1*MSATA SSD, Transmission speeds up to 6Gbps
IO/Interface	POWER	1* Power switch
	USB	4*USB2.0, 2*USB3.0
	COM	2*RS232 (COM1 can be switchable to RS485)
	WIFI	WIFI-2.4G/BT-4.1 (5G Optional)
	Audio	1*LineOut, 1*MicIn
	HDMI	HDMI1.4 Supports up to 4K@30HZ output
	LAN	10M/100M Adaptive Ethernet
	Power	1*DC power adapter interface, support DC 12V
System	Windows10/11、Ubuntu	
Environ-ments	Working Temperature	-5℃~50℃
	Storage Temperature	-20℃~70℃
	Relative Humidity	5%-95% Relative humidity, non-condensing

Order Configuration

Chip	RAM	ROM	Operating system
N5095	4G/8G/16GB	128G/256G/512GB/1TB	Windows10/11、Ubuntu
Core™ 3 I5	4G/8G/16GB	128G/256G/512GB/1TB	XP、Windows7/8/10/11、Linux
Core™ 4 I5	4G/8G/16GB	128G/256G/512GB/1TB	Windows7/8/10/11、Linux
Core™ 6 I5	4G/8G/16GB	128G/256G/512GB/1TB	Windows7/8/10/11、Linux

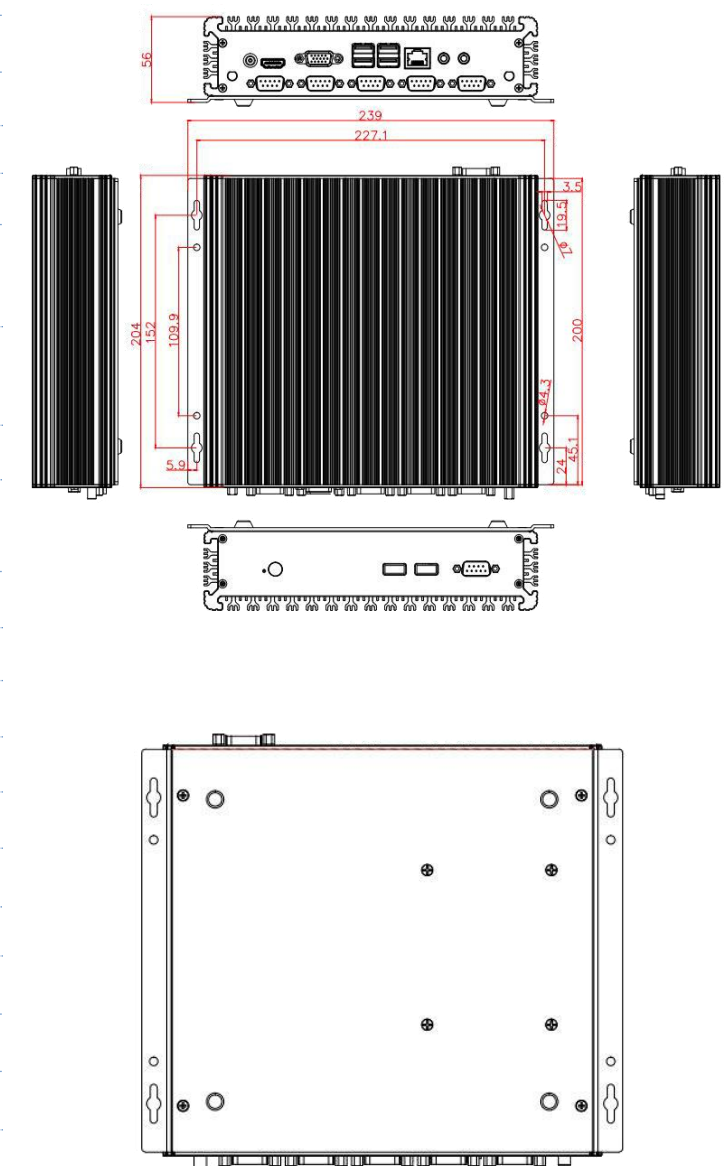
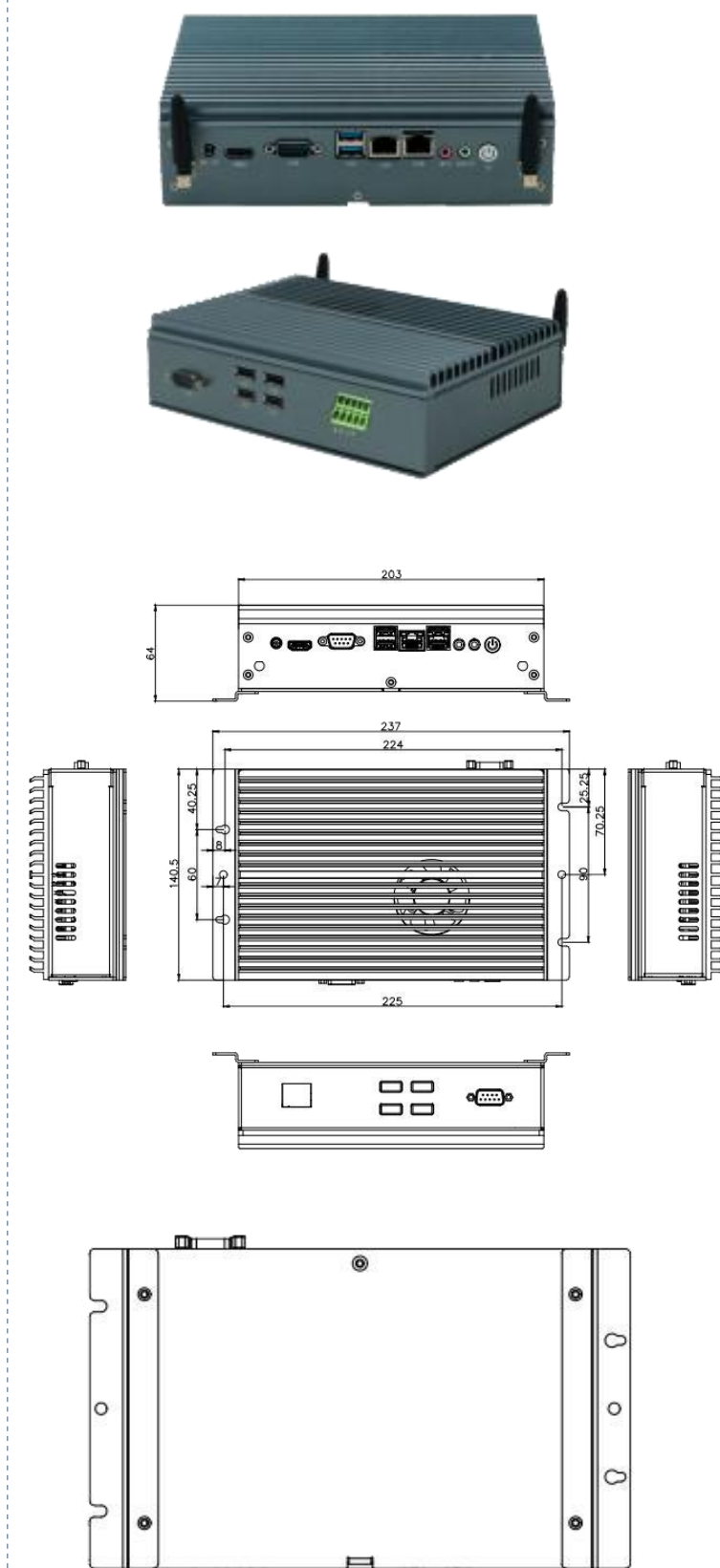
Product Features

- ★ 6*RS232 (COM3 can be switchable to RS485)
- ★ Ultra-thin and compact, with die-cast moulding and cable-free technology for quality and stability.
- ★ The whole machine adopts reverse sticker type zero distance fanless cooling solution to accelerate heat dissipation.
- ★ Dust and moisture resistant, corrosion and shock resistant, high and low temperature resistant.
- ★ WatchDog supports hardware reset function(256levels, 0~255s).
- ★ Supports embedded, desktop, and wall-mounted installation;
- ★ Support power on, timed power on, PXE, and network wake-up functions

Model	IHA-1-6160	
Case	Material	All aluminium alloy fanless
	Color	Gloss black (available in industrial grey)
	Size	239*204*56 (mm)
Mother-board	CPU	Integrated Intel®ElkhartLakeJ6412/2.0GHzTDP10WQuad-Core Quad-Thread Processor
	Display	Integrate the tenth generation intelligent Intel. CoRE™ The Intel processor. Ultra core graphics card
	RAM	2*DDR4 3200MHz , MAX32GB
	ROM	1 * M.2 slot, supports M.2260/2280NVME PCIE standard SSD
IO/Interface	POWER	1* Power switch
	USB	4*USB2.0, 2*USB3.0
	COM	6*RS232 (can be switchable to1*RS485)
	WIFI	WIFI-2.4G/BT-4.1 (5G Optional)
	Audio	1*LineOut, 1*MicIn
	HDMI	HDMI1.4 Supports up to 4K@30HZ output
	LAN	10M/100M Adaptive Ethernet
	Power	1*DC power adapter interface, support DC 12V
System	Windows10/11、Ubuntu	
Environ-ments	Working Temperature	- 5℃~50℃
	Storage Temperature	-20℃~70℃
	Relative Humidity	5%-95% Relative humidity, non-condensing

Order Configuration

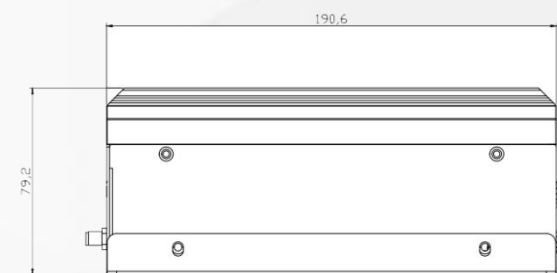
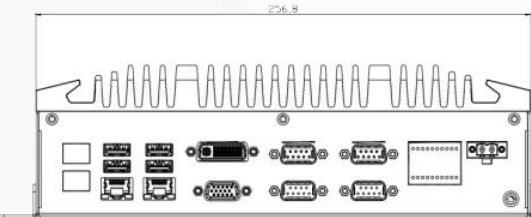
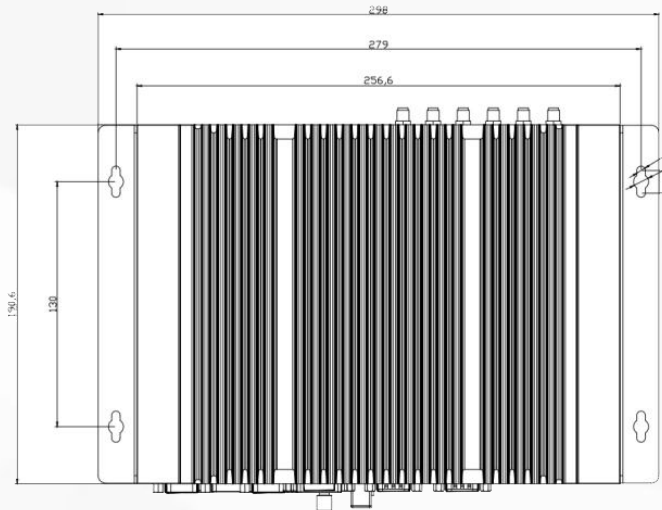
Chip	RAM	ROM	Operating system
J4125	4G/8G/16GB	128G/256G/512GB/1TB	Windows10/11、Ubuntu
J6412	4G/8G/16GB	128G/256G/512GB/1TB	Windows7/8/10/11、Linux
Core™ 3~6/I3/I5/I7	4G/8G/16GB	128G/256G/512GB/1TB	XP、Windows7/8/10/11、Linux
Core™ 8~11/I3/I5/I7	4G/8G/16G/32GB	128G/256G/512GB/1TB	Windows7/8/10/11、Linux



Product Features

- ★ Fanless design with die-cast aluminium alloy housing for efficient heat dissipation and robustness to cope with dust, vibration and strong interference;
- ★ 4*Intel Gigabit Ethernet port with surge protection;
- ★ VGA/DVI/HDMI (LVDS Optional);
- ★ Support timed power on function and network wake-up function;
- ★ Supports embedded, desktop, and wall-mounted installation;
- ★ 4*RS232 (2*485 Optional);
- ★ 8-channel programmable digital input/output with isolation

Model	IHP-1063-448G	
Case	Material	All aluminium alloy with fan
	Color	silvery
	Size	256.8*190.6*79.2 (mm)
Mother-board	CPU	Adopting replaceable LGA1151 packaging for 6th/7th/8th/9th generation I3/I5/I7 series 35W CPU
	Display	Integrated with Intel® Iris™ graphics 540 Supports DirectX12 OpenGL 4.4 and 4K
	RAM	2 * DDR4, MAX32GB, support memory specifications DDR4-2133/2400/2666MH depending on different CPUs
	ROM	1 * M.2 slot, supports M.22260/2280 NVMEPCIe standard SSD
I/O Interface	POWER	1* Power switch, 1*REST
	USB	6*USB2.0
	COM	4*RS232
	WIFI	WIFI-2.4G/BT-4.1 (5G Optional)
	Audio	1*LineOut, 1*MicIn
	GPIO	8-channel programmable digital input/output with isolation
	Display Ports	1*HDMI、1*VGA、1*DP
	LAN	4*Intel Gigabit Ethernet ports with surge protection
	Power	2V~30V Wide voltage DC input (Phoenix terminal)
	System	Windows10/11、Ubuntu
Environ-ments	Working Temperature	-5℃~50℃
	Storage Temperature	-20℃~70℃
	Relative Humidity	5%-95% Relative humidity, non-condensing



Order Configuration

Chip	RAM	RAM	Operating system
LGA1151 6th/7th/8th/9th Generation I3/I5/I7 Series 35W CPU	4G/8G/16G/32GB	128G/256G/512GB/1TB	Windows7/10, WES7, 32/64bit

Product Features

- ★ Fanless design with die-cast aluminium alloy housing for efficient heat dissipation and robustness to cope with dust, vibration and strong interference;
- ★ 2*Intel Gigabit Ethernet port with surge protection;
- ★ Supports embedded, desktop, and wall-mounted installation;
- ★ Support timed power on function and network wake-up function;
- ★ 4 * RS232 port (2 * 485 Optional);
- ★ Support DC seat with lock, power on self starting toggle switch;
- ★ 8-channel programmable digital input/output with isolation

Model	IHP-426G	
Case	Material	All aluminium alloy fanless
	Color	Silver grey, black
	Size	240*145.5*45 (mm)
Mother-board	CPU	J6412/8-10 Generation Core
	Display	Intel Ultra Core Graphics with Integrated 10th Generation Intel® Core™ Processors
	RAM	2*DDR4 3200MHz, MAX32GB
	ROM	2 * M.2 slot, supports M.22260/2280 NVMEPCIe standard SSD, 1 * SIM card
I/O Interface	POWER	1* Power switch
	USB	2*USB2.0, 4*USB3.0
	COM	4*RS232 (RS232/485 Optional)
	WIFI	WIFI-2.4G/BT-4.1 (5G Optional)
	Audio	1*LineOut, 1*MicIn
	GPIO	8-channel programmable digital input/output with isolation
	HDMI	HDMI2.0 Supports up to 4K @ 60HZ output
	LAN	10M/100/1000M Adaptive Ethernet
	Power	1*DC Power adapter interface, support DC12V power input
	System	Windows10/11、Ubuntu
Environ-ments	Working Temperature	-5℃~50℃
	Storage Temperature	-20℃~70℃
	Relative Humidity	5%-95% Relative humidity, non-condensing

Order Configuration

Chip	ROM	RAM	Operating system
J6412	4G/8G/16GB	128G/256G/512GB/1TB	Windows10/11、Ubuntu
Core 8 I3/I5	4G/8G/16GB	128G/256G/512GB/1TB	XP、Windows7/8/10/11、Linux
Core 10 I3/I5	4G/8G/16GB	128G/256G/512GB/1TB	Windows7/8/10/11、Linux

