JWIPC



JWIPC RETAIL
INDUSTRIAL PRODUCTS

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About JWIPC

Company Profiles



Founded in 2011, JWIPC is a comprehensive technology company integrating R&D, production, system integration, sales and service. As an Associate member of the IOT Solution Alliance, JWIPC provides very competitive products in different industries, such as OPS, digital signage, point of sales, industrial PC in IoT; AIO, Mini-PC, PC motherboard in consumer PC; server, storage, communication products and network security in Data Center. With such a full product portfolio, JWIPC provides end-to-end hardware solution to our customers including OEMs, SIs and ISVs all over the world.

J&W | JWIPC | JW INDUSTRY | J&W Data | J&W TCM

Solution Center

JWIPC has the most advantageous upstream resources, providing the latest technology products to all types of customers, to meet the changing needs of the market. JWIPC will continue to introduce new products to accumulate a comprehensive program and gradually become the industry's most abundant program center.

R&D Center

JWIPC has the top domestic R&D team, the most complete test equipment and the most stringent test specifications, which can guarantee the integrity and stability of the product solution, and can also complete customized services based on customer needs, becoming the best R&D center for system integrator and equipment manufacturers.

Manufacturing Center

JWIPC's wholly-owned factory (SCD) has an annual production capacity of more than 7200K. It has the most advanced equipment and an excellent quality assurance system in the industry. While ensuring high-quality processing of independent solutions itself, it can also undertake OEM business. It’s the largest board and complete PC manufacturing center.

Association

BDSA Member



State-level High Technology Enterprise



AVIXA Member



China Educational Equipment Industry Association Member



Intel IoT Solutions Alliance Associate Member



Company's Strength

Enterprise Qualification



Enterprise Patent



patent for invention
10



Utility Model
535



Software copyright
90

As of April 2021, JWIPC has the right to interpret the data

Enterprise Honor



Partner

JWIPC Advantage

Manufacturing Advantage

A wholly-owned independent factory, covering an area of 20,000 square meters, annual output of 7,200K. The factory has a professional management team and a first-class production workshop. It has well-equipped structural and electronic production workshop, with 11 SMT production lines composed of 21 Panasonic automatic high-speed placement machines, 5 DIP production lines, more than 20 complete machine assembly lines, professional testing equipment and analysis equipment, high temperature aging room, and a large number of professional technical workers and production management personnel, production technology is at the leading level in the same industry.

Management Advantage

JWIPC has established a stable and rapid development management system. With the rigorous processes of large companies and the good creativity and rapid market response of small companies, coupled with a flexible system, the management model is unique in the market . Every piece of business is booming and balanced. The company has fully achieved management systemization and digital assessment, and launched self-developed management systems, including customer management systems, supplier management systems, project management systems, and quality management systems.

Innovation Advantage

JWIPC seized the opportunity of the rapid development of the IoTs in recent years, and found an innovative model combining advantages and technology in the process of industry standardization. JWIPC and Intel and many other excellent ecological partners have jointly created OPS modules that are rapidly popularized in the Chinese education industry. OPS, OPS-C, OPS-C+, OPS+, recording, SDM and other innovative standards have fully covered intelligent to Education, digital signage and other industries. And won more than ten technical innovation awards issued by upstream.

Quality Advantage

Do a lot of market research and evaluation before designing, and conduct product development and design after analyzing customer needs and industry development trends. Integrate new technologies with independent intellectual property rights and industry needs into the solution. In the selection of raw materials for the scheme, components of internationally renowned brands such as Intel, Samsung, etc. are selected, and then strict quality control tests such as high and low temperature and reliability are passed. JWIPC guarantees that every product can run stably for a long time.





JWIPC Milestone



1994——J&W Group set up

2002——“J&W” brand MB and graphics products launched

2004——“MINIX” brand for PC Box was launched for overseas market, MINIX operated as Subsidiary of Group.

2009——Independent manufacture system “SCD”set up

2011——Group changed its name to JWIPC and established the Consumer BU, J&W became the sub-brand of the Group's consumer products

2012——IoT BU set up, the program involved education, retail, finance, commercial display and other industries

2013——Network Security BU set up

2017——JWIPC became Associate member in Intel ISA Communication BU set up

2018——Kingeavy BU Develop power semiconductor chips and components,

2019——Industry BU set up

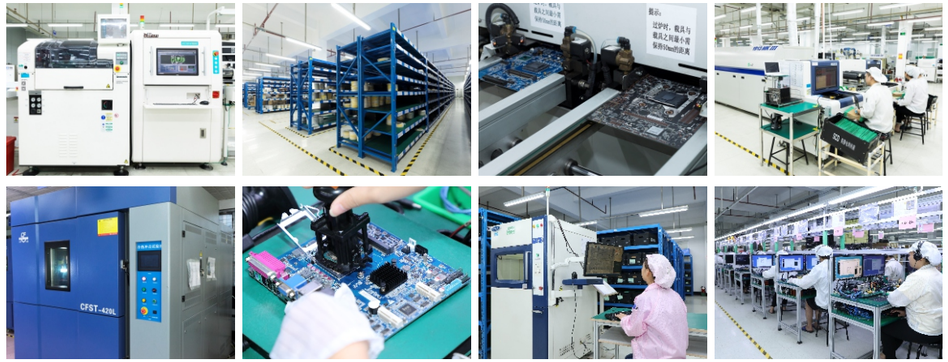
2020——IPO in process

SCD Introduction



Founded in 2009, it is a wholly-owned subsidiary of JWIPC. Specializing in the manufacture and processing of motherboards, industrial control and server products. It is located in the beautiful Qingxi Town of Dongguan City, and is a high-tech enterprise in Guangdong Province with a construction area of 56,000 square meters.

The factory has established a comprehensive quality management system covering all aspects of sales, R&D, purchasing, and manufacture. Unique iMES interactive manufacturing execution system, real-time interconnection monitoring of product status, in order to deal with exceptions in time and improve management.



Business Purpose



1 Supplied high quality product & service for customer.

2 Satisfy and exceed customer expectation .

Certification



3C certification



Quality management system certification



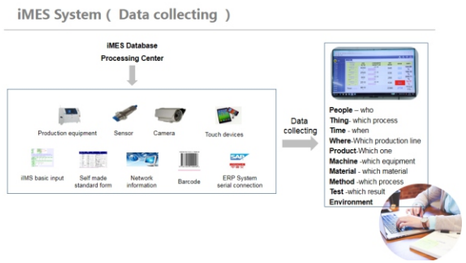
Environmental management system certification

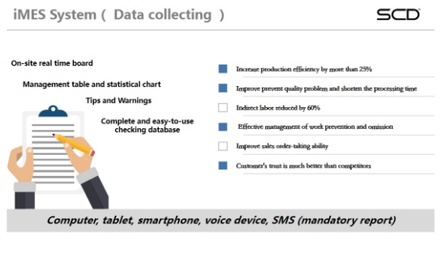


Health management system certification

iMES System

Independently develop iMES System
Interactive Manufacturing Execution System
Selected in Dongguan City Industrial Big Data application Demo Benchmark Project





Manufacturing Equipment

SMT Lines Introduction



Panasonic Chip Mounter

Configuration

- 4 Lines: The printer + SPI + CM602(High speed) x 2 + CM602(General) + Reflow Oven(Air) + AOI
- 4 Lines: The printer + SPI + CM602(High speed) x 2 + CM602(General) + Reflow Oven(N) + AOI
- 2 Lines: The printer + SPI + CM402(High speed) + CM402(General) + Reflow Oven + AOI

DIP Lines Introduction



Configuration

- PCB Max Size: 610 x 610mm
- 1 Line: Insert line + Wave solder(N) + Test Line
- 5 Lines: Insert line + Wave solder+ Test Line

Assembly and Packaging Lines



Test Equipment



Constant Temperature Experimental Machine(4)

1. Used space：1000×1000×800mm
2. Temperature range：-20℃~+80℃，Non-linear variation1℃
3. Humidity：20%RH~95%RH
4. Temperature change rate：≧1℃/min
5. Wind speed：≧4m/s

Constant Temperature Experimental Machine(1)

1. Used space：1200×1000×800mm
2. Temperature range：-40℃~+80℃，Non-linear variation1℃
3. Humidity：20%RH~95%RH
4. Temperature change rate：≧1℃/min
5. Wind speed：≧4m/s

Thermal Shock Machine(1)

1. Used space：1000×700×600mm
2. Temperature range：-50℃~150℃，Non-linear variation1℃
3. Temperature change rate：≧35℃/min
4. Wind speed：≧8m/s



X-RAY(2.5D)



Horizontal vertical vibrator



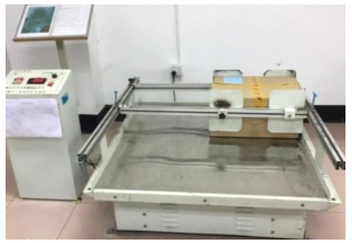
Drop test



Variable frequency vibration experiment



Salt spray test machine



Simulate automobile transportation vibration



TEN YEARS OF METICULOUSLY POLISHING HUNDREDS OF PRODUCTS, EXPAND MULTI-SCENE APPLICATION

COMPLETE LAYOUT AND RAPID ITERATION
CUSTOMIZED FIRMWARE, FLEXIBLE CONFIGURATION
CLOUD PLATFORM SYSTEM SOLUTION
COST-EFFECTIVE COST ADVANTAGE
RICH INTERFACES AND INNOVATIVE APPLICATIONS
INDUSTRIAL QUALITY, STABLE AND RELIABLE

CONTENTS

PART ONE: BOX PC
PART TWO: Retail Motherboard
PART THREE: SPIRIT Tool
PART FOUR: Information Release Solution



RETAIL BOX PC

QUICK SELECTION TABLE
PRODUCT LIST PAGE

Technology is still the number one driving force for retail development. Adapting to different scenarios and applications, JWIPC Retail BOX PC has different series, such as Z series, K series, C series, D series and other products, with ARM and X86 different platforms and specifications, to meet the different needs of commercial display, POS and KIOSK.

Retail BOX PCProduct Overview

Type	Model	CPU	Features
Z Series	Z035	BayTrial	6 x USB2.0/3.0 HDMI 1.4 + VGA
	Z075	Jasper Lake	6 x USB2.0/3.0 HDMI + VGA + DP
K Series	K035P	BayTrial-D	5 x USB2.0/USB3.0, 2 x COM HDMI + VGA
	K065	WhiskeyLake-U	6 x USB3.0, 2 x RJ45 2 HDMI+DP
	K065F	Comet Lake-U	6 x USB3.0, 2 x RJ45 2 HDMI+DP
C Series	C062	Sky Lake-S Kaby Lake-S Coffee Lake-S	8 x USB2.0/3.0, RJ45 HDMI
	C092	Rocket Lake-S Comet Lake-S	8 x USB2.0/3.0, RJ45 HDMI + VGA
D Series	D028	Rockchip Rk3288	4 x USB2.0, RJ45 HDMI + VGA
	D039	Rockchip Rk3399	4 x USB2.0/3.0, RJ45 HDMI

Z035

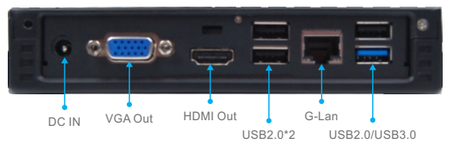
Intel® BayTrial Platform MINI PC



- Intel® BayTrail–D/M platform;
- Dual display output;
- DDR3L Memory;
- Support mSATA SSD Module;
- Support Mini PCIe WiFi/BT Module;
- No fan design;

I/O View





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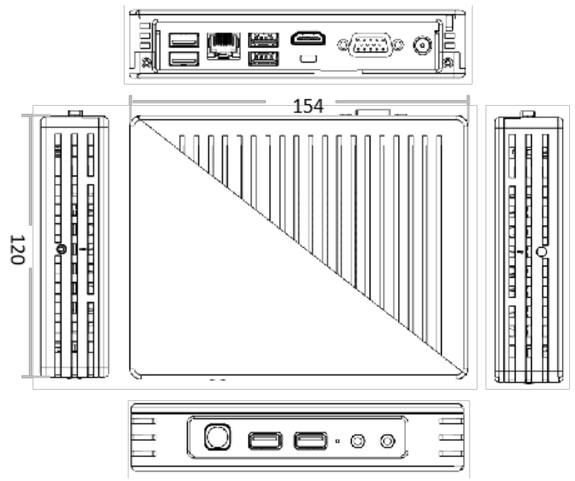
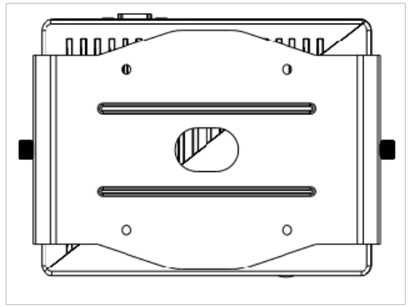




Unit:mm

Specifications

Processor System	CPU	Intel® BayTrail-D/M SOC
	Chipset	SOC
	BIOS	AMI UEFI BIOS
Graphics	Chipset	Intel® HD Graphics
	Multi displays	Support dual displays
	Interface	1 x HDMI,1 x VGA
Memory	Type	1 x DDR3L 1333MHz
	Max	8GB
Ethernet	Lan IC	Realtek RTL8111
	Interface	10/100/1000Mbps
	Connector	1 x RJ45
Wireless	Type	Wi-Fi module
	Interface	1 x Mini PCIe
Storage	Type	SSD
	Interface	1 x mSATA
IO Interface	Rear panel	4 x USB2.0/3.0 Type-A 1 x RJ45 Dual Gigabit LAN 1 x HDMI 1.4 out 1 x VGA out 1 x DC Jack 1 x Kensington
	Front panel	2 x 3.5mm Audio jack：1 x MIC IN,1 x Line out 2 x USB2.0 1 x Power button, Power LED
Software	OS Supports	WINDOWS 10/LINUX
	Watchdog	Support
Power	Power input	12v-3A DC IN
Case	Size	154(L) x 120(W) x 30(H) mm
	Material	ABS resin + EMI shield
Environment	Operating Temp.	-5~45℃
	Operating Humidity	10%~90% non-condensing
	Storage Temp.	-20~70℃
	Operating Humidity	5%~95% non-condensing

Ordering Information

Model	Description
USB2.0/USB3.0	Intel Celeron J1800, 2G DDR3L, 64G SSD, Intel AC3160 WIFI Module
Z035-N9M2S32	Intel Celeron N2930, 4G DDR3L, 64G SSD, No WIFI Module
Z035-J9M2S16	Intel Celeron J1900, 2G DDR3L, 16G SSD, No WIFI Module

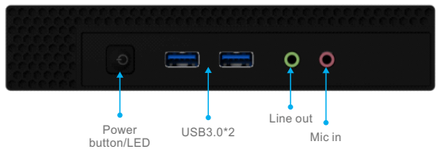
Z075

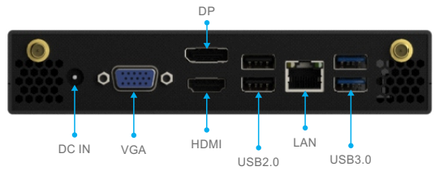
Intel® Jasper Lake Platform MINI PC



- Supports Intel® Jasper Lake;
- SO-DIMM DDR4;
- 1 x M.2 2242&2280 SATA SSD/NVME SSD Slot (Option);
- 6 x USB2.0/3.0;
- M.2 2230 WIFI/BT (Option);
- Displays: 1 x HDMI; 1 x VGA; 1XDP

I/O View





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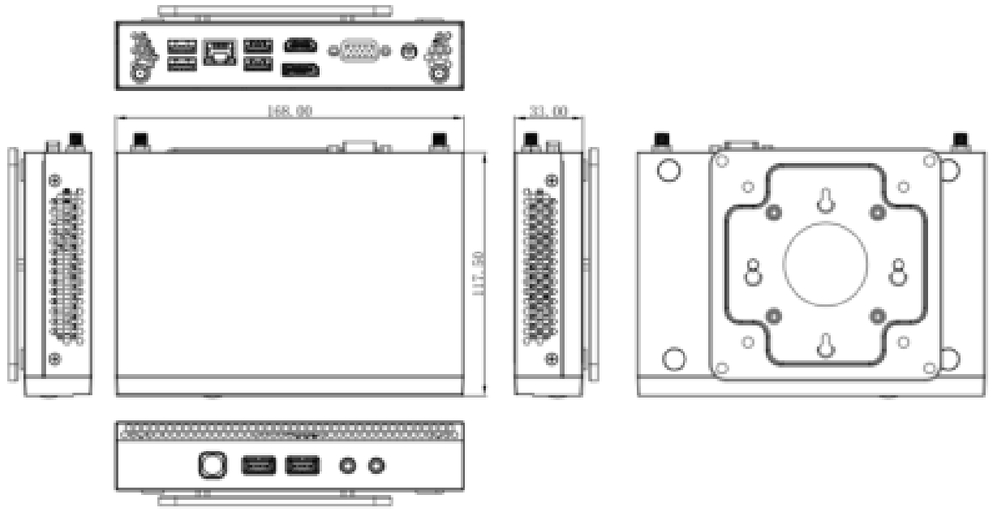


Specifications

Processor System	CPU	Intel® Jasper Lake N5105/N5095/N4505
	Chipset	SOC
	BIOS	AMI UEFI BIOS
Graphics	Chipset	Intel® UHD Graphics 24EUs 800 MHZ
	Multi displays	Support Three displays
	Interface	1 x HDMI,1 x VGA,1xDP
Memory	Type	1 x SO-DIMM DDR4-2400
	Max	16GB
Ethernet	Lan IC	RTL8111H/INTEL 1210/I211（Option）
	Interface	10/100/1000Mbps
	Connector	1 x RJ45
Wireless	Type	Wi-Fi/BT module
	Interface	1 x M.2 2230
Storage	Type	SSD
	Interface	1 x M.2 2242&2280
IO Interface	Rear panel	1 x HDMI;1 x VGA；1xDP 2 x USB 3.0;2 x USB2.0 1 x RJ45 1 x DC Jack 2 x Wi-Fi/BT ANT (Option)
	Front panel	2 x 3.5mm Audio jack：1 x MIC IN, 1 x Line out 2 x USB2.0 1 x Power button, Power LED
Software	OS Supports	WINDOWS 10/LINUX
	Watchdog	No support
	vPro/AMT	No support
	TPM	No support
Power	Power input	12V DC IN, 2.5/5.5 DC Jack, Max.48W
Case	Size	168*120*33mm
	Material	Plastic+Metal
Environment	Operating Temp.	0~45℃
	Operating Humidity	10%~90% non-condensing
	Storage Temp.	-20~70℃
	Operating Humidity	5%~95% non-condensing

Ordering Information

Model	Description
Z075L	N4505/128G SSD/4G DDR4/802.11AC WIFI+BT4.1
Z075V	N5095/128G SSD/4G DDR4/802.11AC WIFI+BT4.1
Z075P	N5095/128G SSD/4G DDR4/802.11AC WIFI+BT4.1

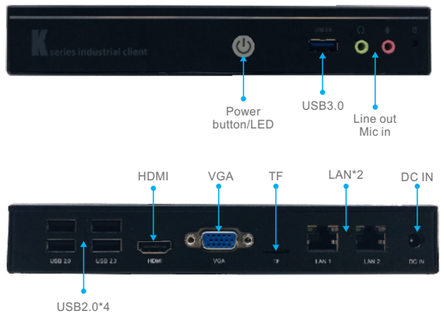
K035P

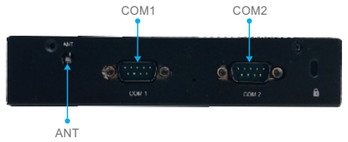
Intel® BayTrial-D Platform MINI PC



- Intel® Baytrail-D, TDP 10W;
- Support 4 x USB2.0, 1*USB3.0 Type-A;
- Support 2*COM;
- Support Dual 1000M-Ethernet;
- Support display：HDMI+VGA;
- Support 4G;

I/O View





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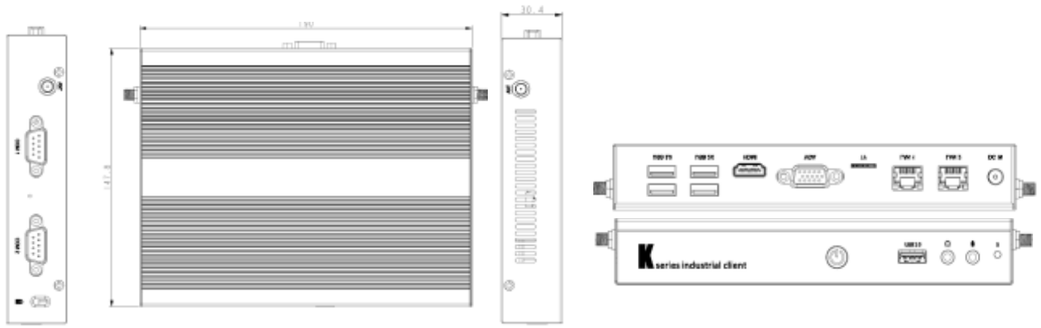


Specifications

Processor System	CPU	Intel® Baytrail-D, TDP 10W
	Chipset	SOC
	BIOS	AMI UEFI BIOS
Graphics	Chipset	Intel® HD Graphics
	Multi displays	Support dual displays
	Interface	1 x HDMI, 1 x VGA
Memory	Type	1 x SO-DIMM DDR3L
	Max	8GB
Ethernet	Lan IC	Realtek 8111H
	Interface	10/100/1000Mbps
	Connector	1 x RJ45
Wireless	Type	Wi-Fi/4G module
	Interface	1 x Mini PCI-e, 1 x M.2 2230, 1 x SIM card slot (nano)
Storage	Type	SSD, HDD
	Interface	1 x SATA2.0, 1 x M.2 key-M 2242 / 2280
IO Interface	Rear panel	1 x HDMI;1 x VGA 4 x USB2.0 2 x RJ45 1 x DC Jack
	Front panel	2 x 3.5mm Audio jack：1 x MIC IN, 1 x Line out 1 x USB3.0 1 x C_COMS 1 x Power button，Power LED
	Side Panel	2 x COM(DB9, RS232) 2 x SMA ANT 1 x Lock 1 x TF Card
Power	Power input	12V DC IN
Case	Size	190*148*30mm
Environment	Operating Temp.	-5~45℃
	Operating Humidity	10%~90% non-condensing
	Storage Temp.	-20~70℃
	Operating Humidity	5%~95% non-condensing

Ordering Information

Model	Description
K035P	Celeron J1800/J1900/M.2 SSD/ SO-DIMM DDR3L/ WIFI+4G module/HDMI

K065

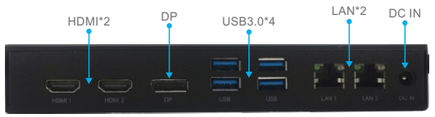
Intel® WhiskeyLake-U Platform MINI PC



- Intel® WhiskeyLake-U platform;
- Dual SO-DIMM DDR4 Memory;
- 6 x USB3.0;
- Dual 1000M LAN;
- Support Vpro/AMT;
- Support Mini PCIe 3G/4G Module;
- Support M.2 Wifi Moduel;
- Three display: 2 HDMI+DP Display;

I/O View





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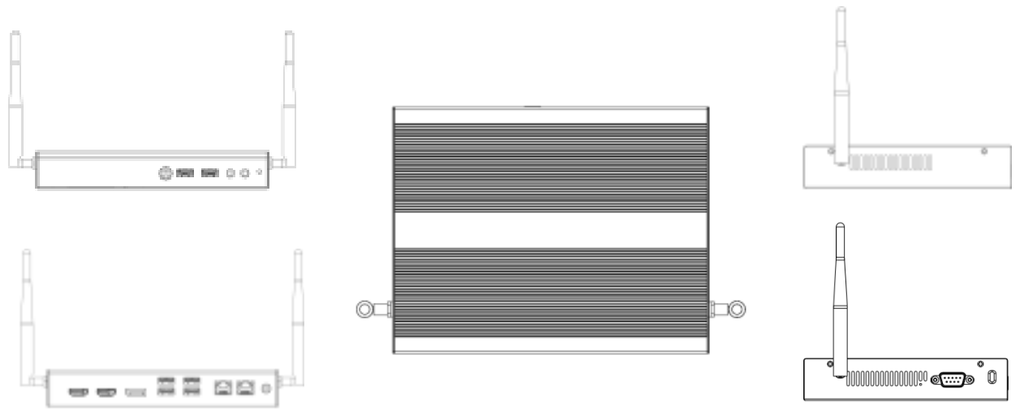


Specifications

Processor System	CPU	Intel® WhiskeyLake-U, TDP 15W
	Chipset	SOC
	BIOS	AMI UEFI BIOS
Graphics	Chipset	Intel® HD Graphics
	Multi displays	Support dual displays
	Interface	2 x HDMI,1 x DP
Memory	Type	2 x SO-DIMM DDR4, 2400MHz
	Max	32GB
Ethernet	Lan IC	1 x Realtek + 1 x Intel® I219
	Interface	10/100/1000Mbps
	Connector	2 x RJ45
Wireless	Type	Wi-Fi/BT module
	Interface	1 x M.2 2230, Support 802.11 b/g/n/ac/BT
Network	WWAN	1 x Mini PCI-e, PCIE + USB2.0 Signal 1 x SIM Card(standard)
Storage	Type	SSD
	Interface	1 x SATA3.0 port 1 x 2242/2280 SSD, Support SATA Signal
IO Interface	Rear panel	2 x HDMI, 1 x DP 4 x USB3.0 2 x RJ45 1 x DC Jack
	Front panel	2 x 3.5mm Audio jack：1 x MIC IN, 1 x Line out 2 x USB3.0 1 x Power button, Power LED
	Side Panel	1 x COM (DB9, RS232)
Power	Power input	12V DC IN
Case	Size	190*148*30mm
Environment	Operating Temp.	-5~45℃
	Operating Humidity	10%~90% non-condensing
	Storage Temp.	-20~70℃
	Operating Humidity	5%~95% non-condensing

Ordering Information

Model	Description
K065-C	Celeron/M.2 SSD/ SO-DIMM DDR4/ WIFI+BT module/ 2 HDMI2.0 /TPM2.0
K065-P	Pentium/M.2 SSD/ SO-DIMM DDR4/ WIFI+BT module/ 2 HDMI2.0 /TPM2.0
K065-i3	Core i3/M.2 SSD/ SO-DIMM DDR4/ WIFI+BT module/ 2 HDMI2.0 /TPM2.0
K065-i5	Core i5/M.2 SSD/ SO-DIMM DDR4/ WIFI+BT module/ 2 HDMI2.0 /TPM2.0
K065-i7	Core i7/M.2 SSD/ SO-DIMM DDR4/ WIFI+BT module/ 2 HDMI2.0 /TPM2.0

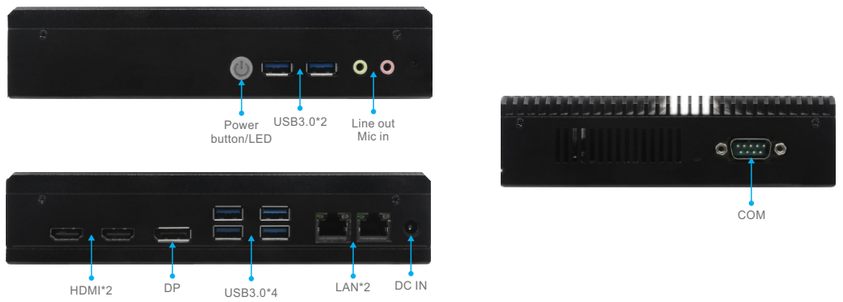
K065F

Intel® Comet Lake-U Platform MINI PC



- Intel® 10th Gen Comet Lake-U;
- Dual SO-DIMM DDR4 Memory;
- 6 x USB3.0;
- Dual 1000M LAN;
- Support Vpro/AMT;
- Support Mini PCIe 3G/4G Module;
- Support M.2 Wifi Moduel;
- Three display：2 HDMI+DP Display;

I/O View



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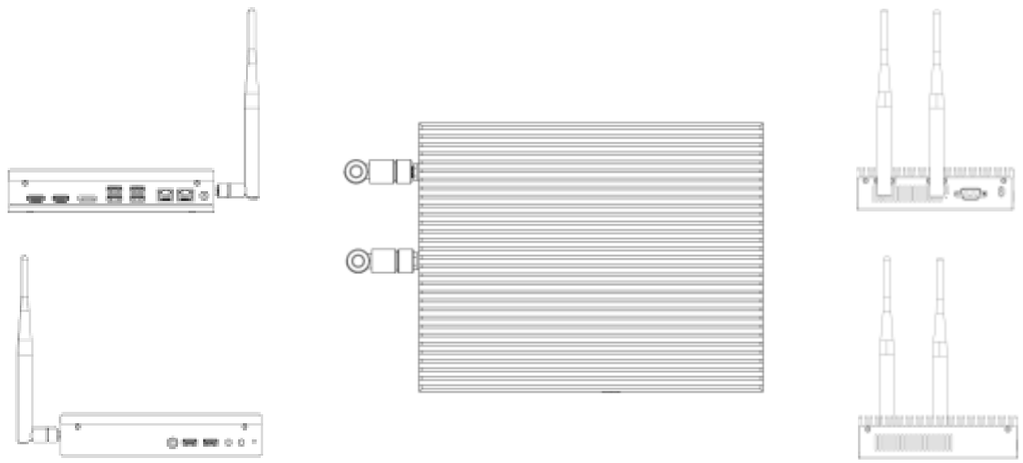


Specifications

Processor System	CPU	Intel® 10th Gen Comet Lake-U, TDP 15W
	Chipset	SOC
	BIOS	AMI UEFI BIOS
Graphics	Chipset	Intel® HD Graphics
	Multi displays	Support Three displays
	Interface	2 x HDMI,1 x DP
Memory	Type	2 x SO-DIMM DDR4, 2400MHz
	Max	32GB
Ethernet	Lan IC	1 x Realtek + 1 x Intel® I219
	Interface	10/100/1000Mbps
	Connector	2 x RJ45
Wireless	Type	Wi-Fi/BT module
	Interface	1 x M.2 2230, Support 802.11 b/g/n/ac/BT
Storage	Type	SSD
	Interface	1 x SATA3.0 port 1 x 2242/2280, SSD Support SATA/PCIE X4 Signal
IO Interface	Rear panel	2 x HDMI, 1 x DP 4 x USB3.0 2 x RJ45 1 x DC Jack
	Front panel	2 x 3.5mm Audio jack：1 x MIC IN, 1 x Line out 2 x USB3.0 1 x Power button, Power LED
	Side Panel	1 x COM (DB9, RS232)
Power	Power input	12V DC IN
Case	Size	190*148*30mm
Environment	Operating Temp.	-5~45℃
	Operating Humidity	10%~90% non-condensing
	Storage Temp.	-20~70℃
	Operating Humidity	5%~95% non-condensing

Ordering Information

Model	Description
K065F-C	Celeron 4205U/M.2 SSD/ SO-DIMM DDR4/ WIFI+BT module/ 2 HDMI2.0 /TPM2.0
K065F-I3	I3-10110U/M.2 SSD/ SO-DIMM DDR4/ WIFI+BT module/ 2 HDMI2.0 /TPM2.0
K065F-I5	I5-10210U/M.2 SSD/ SO-DIMM DDR4/ WIFI+BT module/ 2 HDMI2.0 /TPM2.0
K065F-I7	I7-10510U/M.2 SSD/ SO-DIMM DDR4/ WIFI+BT module/ 2 HDMI2.0 /TPM2.0

C062

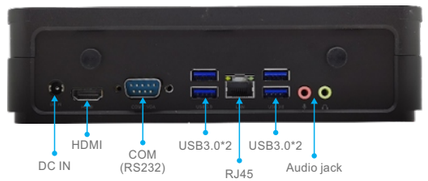
Intel® Sky lake/Kaby lake/Coffee lake-S platform MINI PC



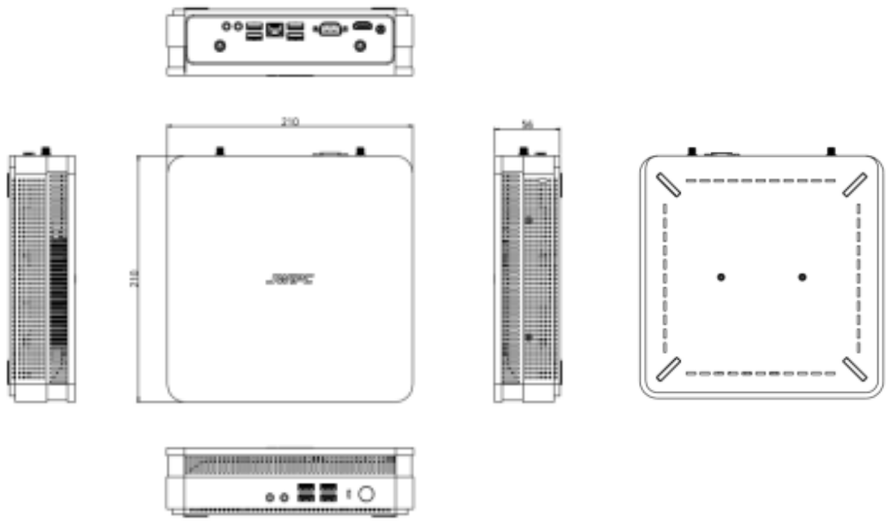
- Supports Intel® 6th/7th/8th/9th Gen CPU;
- Intel® H310C chipset;
- SO-DIMM DDR4;
- 1 x M.2 2280/2242 SSD, 1 x 2.5” SATA;
- 8 x USB2.0/3.0;
- M.2 2230 WIFI/BT (Option);
- Displays: 1 x HDMI;

I/O View





Dimensions



Specifications

Processor System	CPU	Intel® Sky lake/Kaby lake/Coffee lake-S LGA1151, TDP. 65W
	Chipset	Intel® H310C PCH
	BIOS	AMI UEFI BIOS
Graphics	Chipset	Intel® UHD Graphics
	VRAM	Max. 64GB
	Multi displays	Support Dual displays
	Interface	1 x HDMI
Memory	Type	SO-DIMM DDR4-2400
	Max	64GB
Ethernet	Lan IC	1 x RTL8111
	Interface	10/100/1000Mbps
	Connector	1 x RJ45
Wireless	Type	Wi-Fi/BT module
	Interface	1 x M.2 2230
Storage	Type	SSD、HDD
	Interface	1 x M.2 2280, 1 x SATA Port
IO Interface	Rear panel	1 x HDMI 1 x DB-9,COM(RS232) 4 x USB 3.0 1 x RJ45 2 x 3.5mm Audio jack：1 x MIC IN, 1 x Line out 1 x DC Jack 2 x Wi-Fi/BT ANT (Option)
	Front panel	2 x 3.5mm Audio jack：1 x MIC IN, 1 x Line out 4 x USB2.0 1 x Power button, Power LED
Software	OS Supports	WINDOW 7/WINDOWS 10/LINUX
	Watchdog	No support
	vPro/AMT	No support
	TPM	No support
Power	Power input	12~19V DC IN, 2.5/5.5 DC Jack, Max.120W
Case	Size	210 x 210 x 56 mm
	Material	Plastic+Metal
Environment	Operating Temp.	0~45℃
	Operating Humidity	10%~90% non-condensing
	Storage Temp.	-20~70℃
	Operating Humidity	5%~95% non-condensing

Ordering Information

Model	Description
C062-1	I3-8100/H310C Main board/128G SSD/4G DDR4/802.11AC WIFI+BT4.1

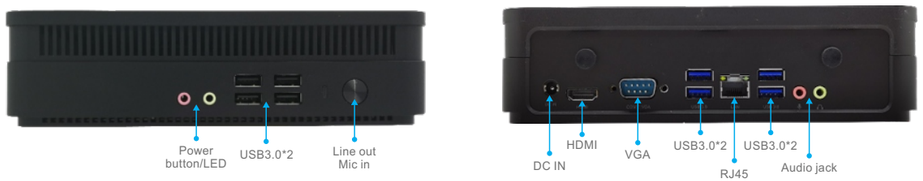
C092

Intel® Rocketlake-S/Comet Lake-S platform MINI PC

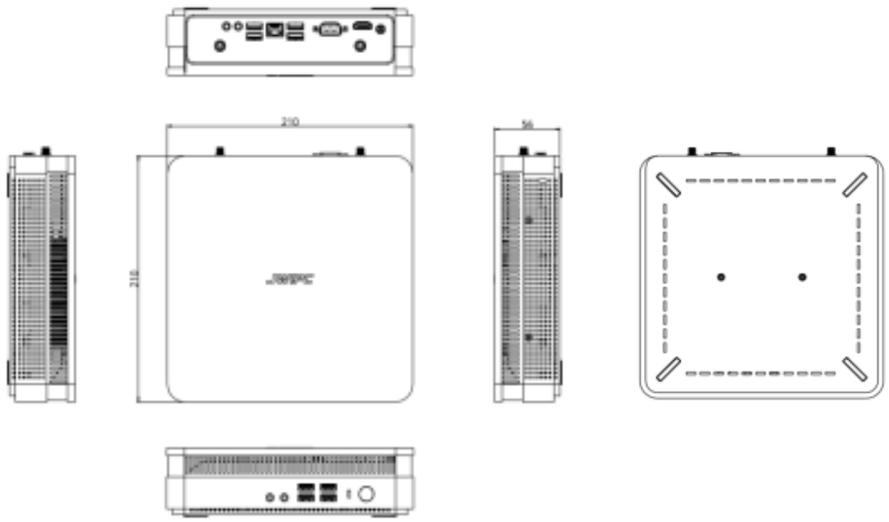


- Supports Intel® 10th/11th Gen CPU;
- Intel® H510 chipset;
- SO-DIMM DDR4;
- 1 x M.2 2280 SSD, 1 x 2.5” SATA Port;
- 8 x USB2.0/3.0;
- M.2 2230 WIFI/BT (Option);
- Displays: 1 x HDMI; 1 x VGA

I/O View



Dimensions



Specifications

Processor System	CPU	Intel® Rocketlake-S/Comet Lake-S LGA1200, TDP. 65W
	Chipset	Intel® H510 PCH
	BIOS	AMI UEFI BIOS
Graphics	Chipset	Intel® Xe graphics architecture
	Multi displays	Support Dual displays
	Interface	1 x HDMI；1 x VGA
Memory	Type	2 x SO-DIMM DDR4-2400
	Max	64GB
Ethernet	Lan IC	1 x RTL8111
	Interface	10/100/1000Mbps
	Connector	1 x RJ45
Wireless	Type	Wi-Fi/BT module
	Interface	1 x M.2 2230
Storage	Type	SSD、HDD
	Interface	1 x M.2 2280, 1 x SATA Port
IO Interface	Rear panel	1 x HDMI; 1 x VGA 1 x DB-9, COM (RS232) 4 x USB 3.0 1 x RJ45 2 x 3.5mm Audio jack: 1 x MIC IN, 1 x Line out 1 x DC Jack 2 x Wi-Fi/BT ANT (Option)
	Front panel	2 x 3.5mm Audio jack：1 x MIC IN, 1 x Line out 4 x USB2.0 1 x Power button, Power LED
Software	OS Supports	WINDOW 7/WINDOWS 10/LINUX
	Watchdog	No support
	vPro/AMT	No support
	TPM	No support
Power	Power input	12~19V DC IN, 2.5/5.5 DC Jack, Max.120W
Case	Size	210 x 210 x 56 mm
	Material	Plastic+Metal
Environment	Operating Temp.	0~45℃
	Operating Humidity	10%~90% non-condensing
	Storage Temp.	-20~70℃
	Operating Humidity	5%~95% non-condensing

Ordering Information

Model	Description
C092-L	I3-10105/H510 Main board/128G SSD/4G DDR4/802.11AC WIFI+BT4.1
C092-V	I5-10405/H510 Main board/512G SSD/8G DDR4/802.11AC WIFI+BT4.1

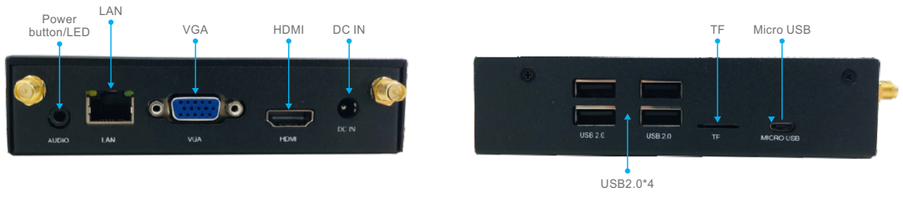
D028

RK3288 Digital Signage Player



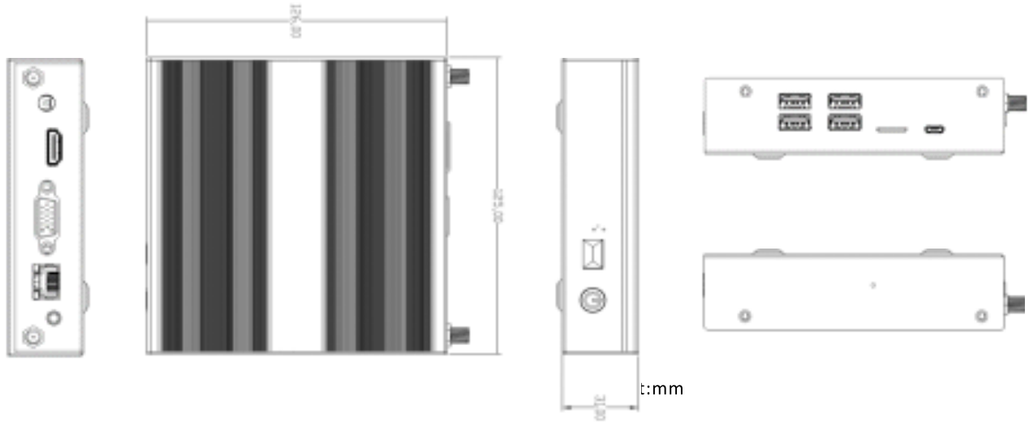
- Rockchip 3288W, Quad Cortex-A17;
- Mali T764 GPU;
- 4 x USB2.0;
- 1 x Gigabit Ethernet;
- Onboard WIFI/BT;
- Support HDMI2.0;
- Support JWIPC SPIRIT;

I/O View



USB2.0*4

Dimensions



Specifications

Processor	Rockchip 3288W Quad Cortex-A17
Graphics	Mali-T764
Memory	DDR3L 2G
Storage	eMMC 16G
Wireless/BT	AP6236
Display	1*HDMI2.0
Front I/O	IR_LED
	Power Button with PWR_LED
Rear I/O	1*DC_IN JACK
	1*RJ45 Gigabit Ethernet
	1*HDMI2.0
	1*VGA
	1*Line out 3.5mm jack
Right I/O	1*TF Slot
	4*USB2.0 Type-A
	1*Micro USB, OTG function
Left I/O	1*Recover button
Power input	12V DC IN
Watchdog	Support
Dimension	118(L)*118(W)*31mm(H)
Temperature enviroment	Operating temperture : -0℃~45℃
	Operating temperture : -0℃~45℃
Relative humidity	10%~90% (non-condensing)

Ordering Information

Model	Description
D028	D028/4G RAM/ 32G eMMC
D028	D028/2G RAM/ 16G eMMC

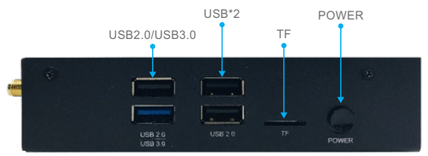
D039

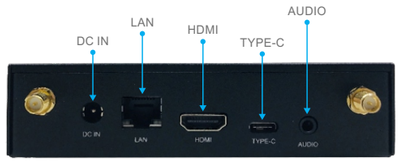
RK3399 Digital Signage Player



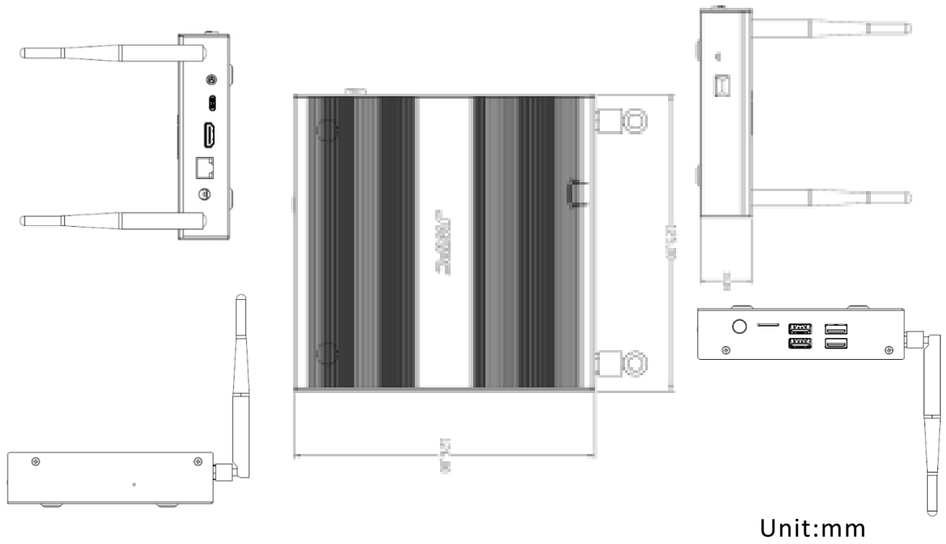
- Rockchip 3399 Dual Cortex-A72 + Quad Cortex-A53 Mali T864;
- 1* USB3.0, 3 * USB2.0;
- Onboard MIMO WIFI/BT module;
- 1* Gigabit Ethernet;
- Support HDMI2.0;

I/O View





Dimensions



Specifications

Processor	Rockchip 3399 Dual Cortex-A72 + Quad Cortex-A53
Graphics	Mali-T864
Memory	LPDDR4 2G
Storage	eMMC 16G
Wireless/BT	AP6356S 2x2 MIMO 802.11 ac/b/g/n WIFI+BT4.1
Display	1*HDMI2.0 support CEC
Front I/O	IR_LED
Rear I/O	1*DC_IN JACK
	1*RJ45 Gigabit Ethernet
	1*HDMI2.0
	1*TYPE-C
	2*Antenna
	1*Line in&Line out 2 in 1 3.5mm jack
Right I/O	1*USB3.0
	3*USB2.0
	1*POWER
	1*TF slot
Power input	12V DC IN
Watchdog	Support
Dimension	128(L)*128(W)*30mm(H)
Temperature enviroment	Operating temperture : -0℃~45℃
	Storage temperture: -20℃~70℃
Relative humidity	10%~95% (non-condensing)

Ordering Information

Model	Description
D039-01	D039/4G RAM/ 32G eMMC
D039-02	D039/2G RAM/ 16G eMMC



Retail Motherboard Product Overview

Type	Model	CPU	Features
POS	R28P	Rockchip RK3288	8 x USB2.0, 3 x COM, RJ45 LVDS1/LVDS2/EDP1/EDP2(option)
	R68P	Rockchip RK3568	8 x USB2.0/3.0, 4 x COM, RJ45 LVDS/eDP
Digital Signage	R28D	Rockchip RK3288	6 x USB2.0, 2 x COM, RJ45 HDMI/LVDS/eDP(option)
	R68D	Rockchip RK3568	7 x USB2.0/3.0, 4 x COM, RJ45 HDMI/LVDS/eDP/MIPI
KIOSK	R28S	Rockchip RK3288	10 x USB2.0, 7 x COM, RJ45 HDMI/LVDS/eDP
	R39S	Rockchip RK3399	
	R68S	Rockchip RK3568	9 x USB2.0, 6 x COM, RJ45 HDMI/LVDS/eDP/MIPI

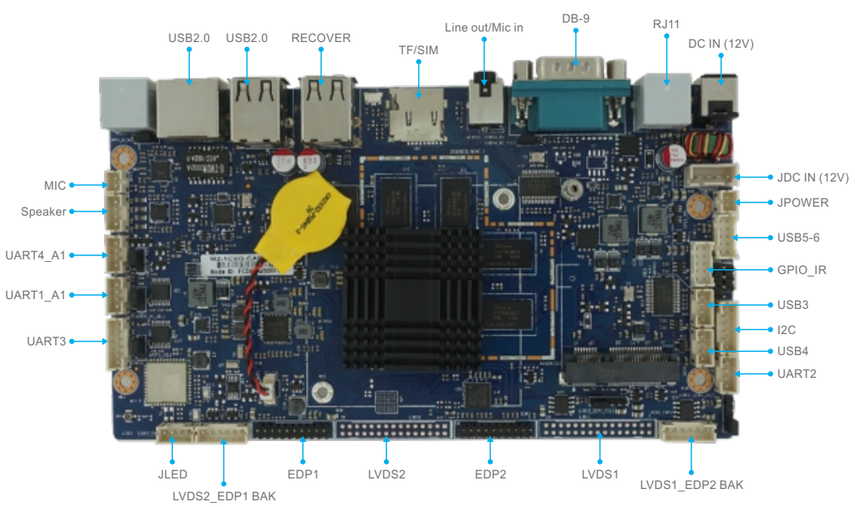
R28P

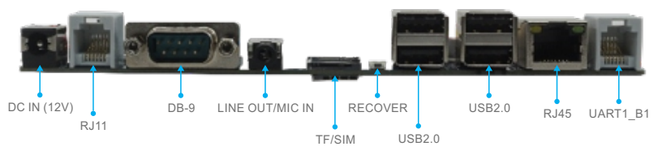
RK3288 POS Motherboard



- RK3288W 4Core SOC, ARM Cortex-A17, Max. 1.6GHz;
- Onboard 2GB DDR3L (optional 1GB);
- Supports dual display of LVDS1/LVDS2/EDP1/EDP2;
- Onboard 8GB EMMC (optional 16/32GB);
- 802.11b/g/n WIFI+BT;
- 8 x USB2.0, 3 x COM;
- 10/100M Etherne;
- Supports GPIO/I2C/IR/RJ11/4G/Watchdog;
- Supports 12V DC Input;

Product View





Specifications

CPU	RK3288W 4Core SOC , ARM Cortex-A17, Max. 1.6GHz
GPU	ARM Mali-400 Mp4
Memory	1GB/2GB DDR3L optional
OS	Android 7.1
Storage	Onboard 8GB EMMC (optional 16/32GB)
Audio	I2S Audio IC, ALC5651
LAN	1 x 10/100Mbps, RTL8201F
Displays	2 ,30 Pin, 2 x 15PIN LVDS Port 2 ,20 Pin, 2 x 10PIN eDP Port 1 x 6pin LVDS1_EDP2 BAK 1 x 6pin LVDS2_EDP1 BAK
Audio interfaces	1 x 3.5mm Auido jack：Line out 1 x Mic in 2pin wafer Amplifier：3W/4Ω x 2
USB	IO: 4 USB2.0 Internal : 4 x USB2.0
Serial	5 x COM (1个DB-9可选RS232/TTL/RS485, 默认RS232, 3个COM 4pin, RS232可选RS232/TTL, 默认RS232(UART1_A1, UART3, UART4_A1), 1个RJ11- 6pin) DB-9 (丝印:UART4_B1)与(UART4_A1)Co-lay RJ11-6PIN (丝印:UART1_B1) 与UART1_A1 Co-lay Support 5/12V optional
Expansion	1 x Mini PCIe for 3G/4G mobile network module 1 x SIM Slot,1 x TF Slot,1 x IR header 1 x TP-I2C(1*6pin 2.0mm wafer) 4 x GPIO header,1x JDC IN header 1x JPOWER header,1 x JLED header
Power	12V DC input
SIZE	170mm x 96mm
Working temperture	-5~50℃
Working Humidity	10%~90% non-condensing
Storage temperture	20~70℃
Non working Humidity	5%~90% non-condensing

Ordering Information

Model	Description
R28P-216LE	RK3288W/LVDS1/EDP1/8 USB2.0/3 COM/ 1 LAN
R28P-216EE	RK3288W/EDP1/EDP2/8 USB2.0/3 COM/ 1 LAN
R28P-216LL	RK3288W/LVDS1/LVDS2/8 USB2.0/3 COM/ 1 LAN

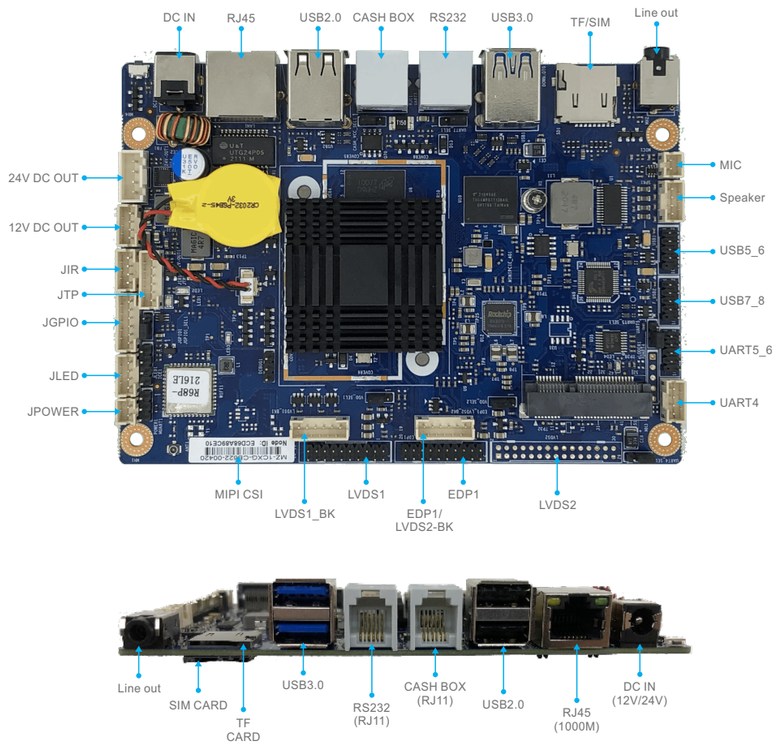
R68P

RK3568 POS Motherboard



- RK3568 4Core SOC, ARM Cortex-A55, Max. 2.0GHz;
- Onboard LPDDR4/4X (optional 2GB/4GB)；
- Supports LVDS/eDP dispaly, MIPI CSI camera;
- Onboard 8GB EMMC (optional 16/32GB);
- Supports WIFI+BT and 4G extension;
- 8 x USB2.0, 4 x COM;
- 10/100/1000M Etherne;
- Supports WOL/Time Switch/Watchdog;
- Supports Android 11;

Product View



Specifications

CPU	RK3568 4Core SOC, ARM Cortex-A55, Max. 2.0GHz
GPU	ARM Mali-G52
Memory	LPDDR4 /4X (Optional 2GB/4GB)
OS	Android 11、Debian 10
Storage	Onboard 8GB EMMC (optional 16/32GB)
Audio	RK809-5 Integrated Audio
LAN	1 x 10/100/1000Mbps
Wireless	Onboard 2.4G WIFI+BT4.2/2.4G&5G 1 x Mini PCIE Solt, Support 4G Extension
Displays	1 x 20 Pin LVDS1, 2 x 10PIN 2.0mm 1 x 30 Pin LVDS2, 2 x 15PIN 2.0mm 1 x 20 Pin eDP1, 2x 10PIN 2.0mm Reserved interface, expandable EDP2, MIPI DSI display
Camera	1 x MIPI-CSI, 40pin FPC
Audio interfaces	1 x 3.5mm Auido jack: Line out 1 x Mic in 2pin wafer, 1 x Speaker 4Pin Amplifier: 5W/8Ω
USB	IO: 2 x USB3.0, 2 x USB2.0 Internal: 4 x USB2.0
Serial	1 x RS232(RJ11); PIN: 3 x RS232/TTL option 1 x RJ11 Cash drawer interface, 12V/24V option
Expansion	1 x TF Slot 1 x Micro SIM 1x TP-I2C 1x GPIO pin, supports 1 x ADC and 3 x GPIO 1 x IR pin 1 x LED pin 1 x POWER pin
Power	IO: DC JACK 12V/24V PIN: 1 x 24V DC OUT, 1 x 12V DC OUT
SIZE	137mm x 98mm
Working temperture	-5~50℃
Working Humidity	10%~90% non-condensing
Storage temperture	-20~70℃
Non working Humidity	5%~90% non-condensing

Ordering Information

Model	Description
R68P-A1	RK3568/2G/16G/6*USB2.0+2*USB3.0/4*RS232/LVDS1+LVDS2/LAN/WIFI+BT
R68P-B1	RK3568/2G/16G/6*USB2.0+2*USB3.0/2*RS232+2*TTL/EDP+LVDS1/LAN/WIFI+BT

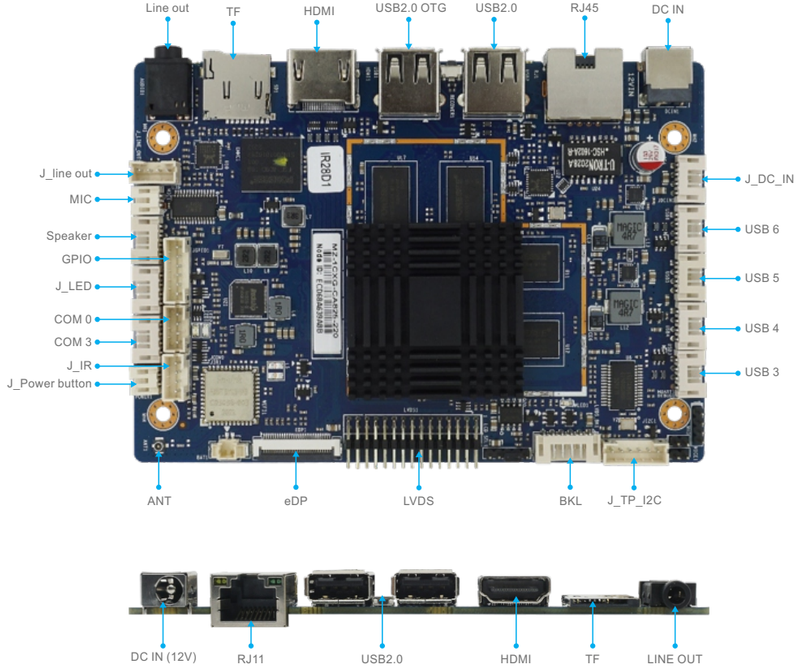
R28D

RK3288 Digital Signage Motherboard



- RK3288W 4Core SOC, ARM Cortex-A17, Max. 1.6GHz;
- Onboard 2GB DDR3L (optional 1GB);
- Supports dual display of HDMI/LVDS/eDP;
- Onboard 8GB EMMC (optional 16/32GB);
- 802.11b/g/n WIFI+BT;
- 6 x USB2.0, 2 x COM;
- 10/100M Etherne;
- Supports WOL/Time Switch/Watchdog;
- Supports Android 7.1 and ubuntu18.04;

Product View



Specifications

CPU	RK3288W 4Core SOC, ARM Cortex-A17, Max. 1.6GHz
GPU	ARM Mali-T764 Mp4
Memory	Optional 1GB/2GB, DDR3L
OS	Android 7.1 / Ubuntu 18.04
Storage	Onboard EMMC (Optional 8G/16/32GB)
Audio	HD sound quality IC, ALC5651
LAN	1 x 10/100Mbps
Displays	1 x HDMI Type-A 1, 30 Pin, 2 x 15PIN LVDS 1 x 6Pin LVDS 1, 30 Pin, 1 x 30PIN FPC
Audio interfaces	1 x 3.5mm Auido jack: Line out 1 x Line out, 1 x Mic pin 1 x Speaker pin Amplifier: 8W/8Ω
USB	IO: 2 x USB2.0, One OTG, default HOST Internal: 4 x USB2.0
COM	2 x 4pin TTL Serial voltage 5V
Expansion	1 x TF Slot 1 x TP-I2C (1*6pin 2.0mm) 1 x LED 1 x GPIO pin ,Support 1 x ADC and 3 x GPIO 1 x IR pin
Power	12V DC Input
SIZE	126mm x 87mm
Working temperture	-5~50℃
Working Humidity	10%~90% non-condensing
Storage temperture	-20~70℃
Non working Humidity	5%~90% non-condensing

Ordering Information

Model	Description
R28D1-28WB	RK3288W/HDMI/LVDS/EDP/2G/8G/WIFI+BT
R28D1-28W	RK3288W/HDMI/LVDS/EDP/2G/8G/ WIFI
R28D1-216WB	RK3288W/HDMI/LVDS/EDP/2G/16G/WIFI+BT
R28D1-216W	RK3288W/HDMI/LVDS/EDP/2G/16G/WIFI

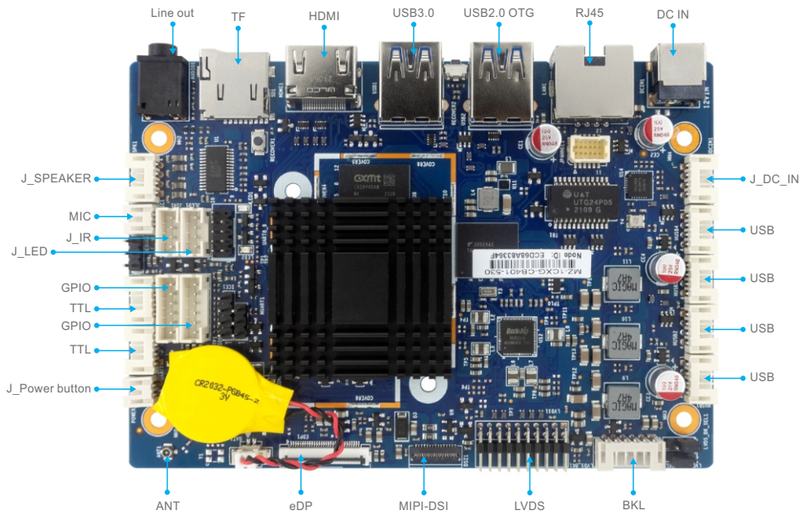
R68D

RK3568 Digital Signage Motherboard



- RK3568 4Core SOC, ARM Cortex-A55, Max. 2.0GHz;
- Onboard LPDDR4/4X (optional 1/2/4/6/8GB);
- Onboard 8GB EMMC (optional 16/32/64GB);
- Supports HDMI/LVDS/eDP/MIPI dispaly;
- Supports WIFI+BT Module;
- 7 x USB2.0/USB3.0, 4 x COM;
- 10/100/1000M Etherne;
- Supports WOL/Time Switch/Watchdog;
- Supports Android 11;

Product View





Specifications

CPU	RK3568 4Core SOC, ARM Cortex-A55, Max. 2.0GHz
GPU	ARM Mali-G52
Memory	Option 1 / 2 /4 /6 /8 GB, LPDDR4 /4X
OS	Android 11 / Debian 10
Storage	Onboard eMMC (option 8G/16/32GB/64GB)
Audio	RK809-5 Integrated Audio
LAN	1 x 10/100/1000Mbps
Displays	1 x HDMI Type-A 1 x 20 Pin LVDS, 2 x 10PIN 2.0mm 1 x 6Pin LVDS 1 x 30 Pin 0.5mm FPC eDP 1 x 31 Pin 0.3mm FPC MIPI-DSI
Audio interfaces	1 x 3.5mm Auido jack: Line out 1 x Line out, 1 x Mic 1 x Speaker Amplifier: 5W/8Ω
USB	IO: 2 x USB3.0, One OTG, default HOST Internal : 5 x USB2.0
COM	2 x 4pin TTL 2 x RS232/TTL option, 2*5-1pin 2.0mm
Expansion	1 x TF Slot 1 x TP-I2C (1*6pin 2.0mm) 1 x LED 1 x GPIO pin, Support 1 x ADC and 3 x GPIO 1 x IR pin 1 x MIPI-CSI, 40pin 0.5mm FPC 1 x FPANEL(LAN+USB2.0)
Power	12V DC Input
SIZE	126mm x 87mm
Working temperture	-5~50℃
Working Humidity	10%~90% non-condensing
Storage temperture	-20~70℃
Non working Humidity	5%~90% non-condensing

Ordering Information

Model	Description
R68D-128T	RK3568/Single frequency WiFi/2G/8G/TTL
R68D-1216T	RK3568/Single frequency WiFi/2G/16G/TTL
R68D-1216R	RK3568/Single frequency WiFi/2G/16G/RS232
R68D-1416T	RK3568/Single frequency WiFi/4G/16G/TTL
R68D-1416R	RK3568/Single frequency WiFi/4G/16G/RS232
R68D-1432R	RK3568/Single frequency WiFi/4G/32G/RS232

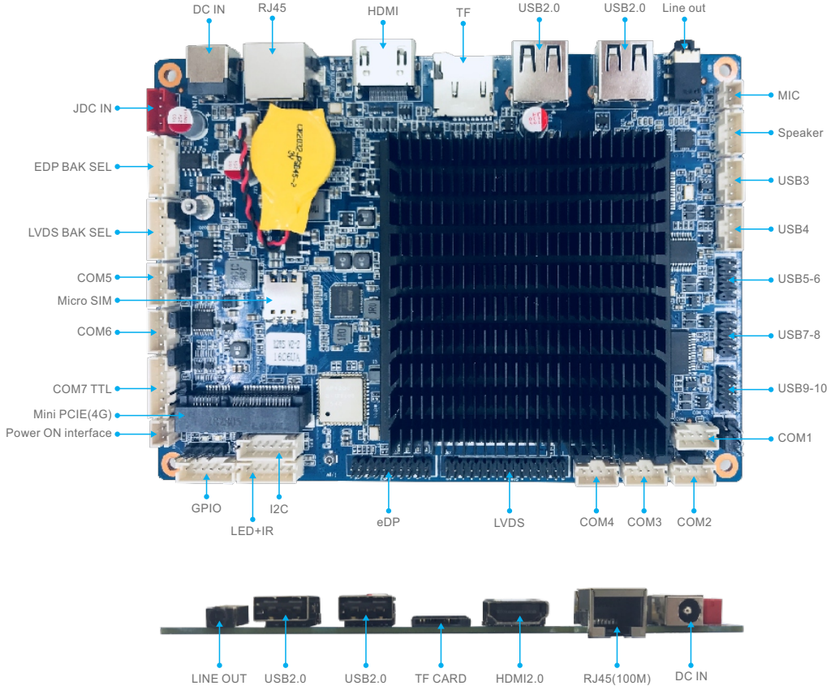
R28S

RK3288 KIOSK Motherboard



- RK3288W 4Core SOC, ARM Cortex-A17, Max. 1.6GHz;
- Onboard 2GB DDR3L (optional 1GB);
- Supports dual display of HDMI/LVDS/eDP(option);
- Onboard 8GB EMMC (optional 16/32GB);
- 802.11b/g/n WIFI+BT;
- 10 USB2.0, 7 COM;
- 10/100M Etherne;
- Supports GPIO/I2C/Watchdog;
- Supports 12V DC Input;

Product View



Specifications

CPU	RK3288W 4Core SOC, ARM Cortex-A17, Max. 1.6GHz
GPU	Mali-T764
Memory	1GB/2GB DDR3L optional
OS	Android 7.1
Storage	Onboard 8GB EMMC (optional 16/32GB)
Audio	HD Audio IC, ALC5651
LAN	1 x 10/100Mbps, RTL8201
Displays	1 x HDMI Type-A 1 ,30 Pin, 2 x 15PIN LVDS Port 1 ,20 Pin, 2 x 10PIN eDP Port
Audio interfaces	1 x 3.5mm Auido jack：Line out 1 x Mic in (header) Amplifier：3W/4Ω x2
USB	IO: 2 x USB2.0 Internal : 8 x USB2.0
COM	7(6 , 4pin RS232) 1, 6pin TTL Support 5/12V optional (1 support flow control)
Expansion	1 x Mini PCIe for 3G/4G mobile network module 1 x TF Slot 1 x TP-I2C(1*6pin 2.0mm wafer) 1 x ADC header 1 x IR header 3 x GPIO header, 2 x GPIO-LED header, 1 x I2C (6PIN Wafer)
Other	NA
Power	12V DC Input
SIZE	146mm x 102mm
Working temperture	-5~50℃
Working Humidity	10%~90% non-condensing
Storage temperture	-20~70℃
Non working Humidity	5%~90% non-condensing

Ordering Information

Model	Description
R28S-A1	RK3288W/HDMI/LVDS/EDP/10 USB2.0/7 COM/ 1 LAN
R28S-B1	RK3288W/HDMI/LVDS/EDP/6 USB2.0/3 COM/ 1 LAN
R28S-A2	RK3288W/LVDS/EDP/10 USB2.0/2 COM/ 1 LAN

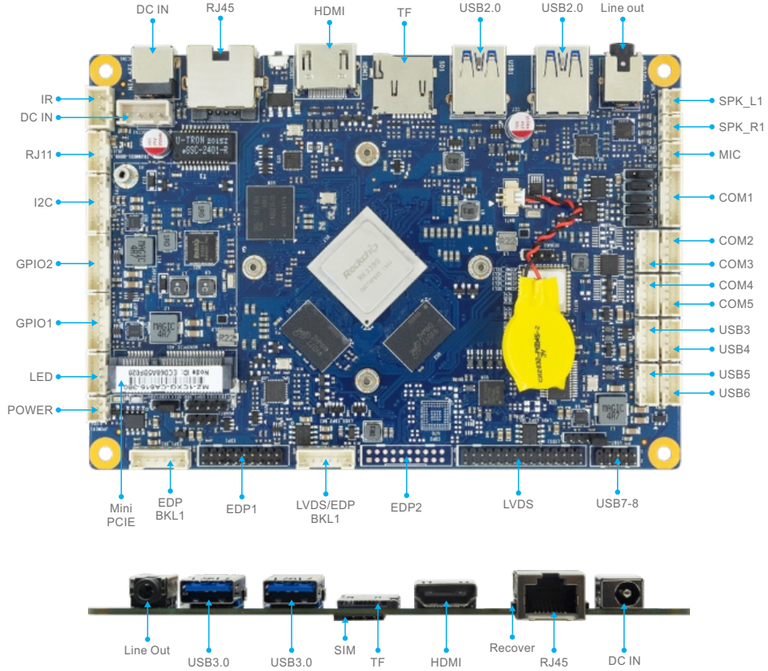
R39S

RK3399 KIOSK Motherboard



- Rockchip RK3399 Dual Cortex-A72 + Quad Cortex-A53;
- Onboard LPDDR4 and EMMC;
- 2 x USB3.0, 6 x USB2.0;
- 5 x COM, Support RS232/TTL/RS485;
- 1000M network;
- Onboard WIFI/BT Module;
- Dual display ：HDMI+LVDS+EDP1/EDP2;
- Support watchdog /WOL /RTC/GPIO/I2C;
- Support Android7.1/Ubuntu 18.04;

Product View



Specifications

CPU	Rockchip RK3399 Dual Cortex-A72 + Quad Cortex-A53, Max. 1.8GHz
GPU	Mali T864
Memory	Onboard LPDDR4
OS	Android7.1 /Ubuntu 18.04
Storage	Onboard EMMC, optional 16G /32G
LAN	1 x 10/100/1000Mbps
WIFI/BT	Onboard Ap6236, support 2.4G WIFI&BT4.2
Displays	1 x HDMI Type-A 1 x LVDS (30pin header) 1 x eDP1 (20pin header) 1 x eDP2 (20pin header) -optional
Audio interfaces	1 x 3.5mm Auido jack (1*Line out (header) 2 x Speaker (Amplifier: 3W/4Ω*2)
USB	IO: 2 x USB3.0 Internal: 6 x USB2.0 (4 x 4pin 2.0mm wafer, 1 x 2*5-1pin 2.0mm Dupont)
Serial	1x TTL(1*4pin 2.0mm wafer) 1x RS485/RS232/TTLL (optional(1*4pin 2.0mm wafer) 1x RS232/TTL (2,1*4pin 2.0mm wafer) 2x RS232
Expansion	1 x Mini PCIe for 4G mobile network module 1 x TF Slot, 1 x SIM Slot 1 x TP-I2C (1*6pin 2.0mm wafer) 1 x LED 1 x IR 7 x GPIO, 1 x Power, 1 x RJ11
Power	12V DC input, 5.5*2.5mm Jack&1*4pin wafer
SIZE	146mm x 102mm
Working temperture	-5~50℃
Working Humidity	10%~90% non-condensing
Storage temperture	-20~70℃
Non working Humidity	5%~90% non-condensing

Ordering Information

Model	Description
JMX-R39S-432	RK3399/ 4G memory /32G EMMC /HDMI/LVDS/EDP/ 5*COM /6*USB2.0/2*USB3.0
JMX-R39S-432	RK3399/ 2G memory /16G EMMC /HDMI/LVDS/EDP/ 5*COM /6*USB2.0/2*USB3.0

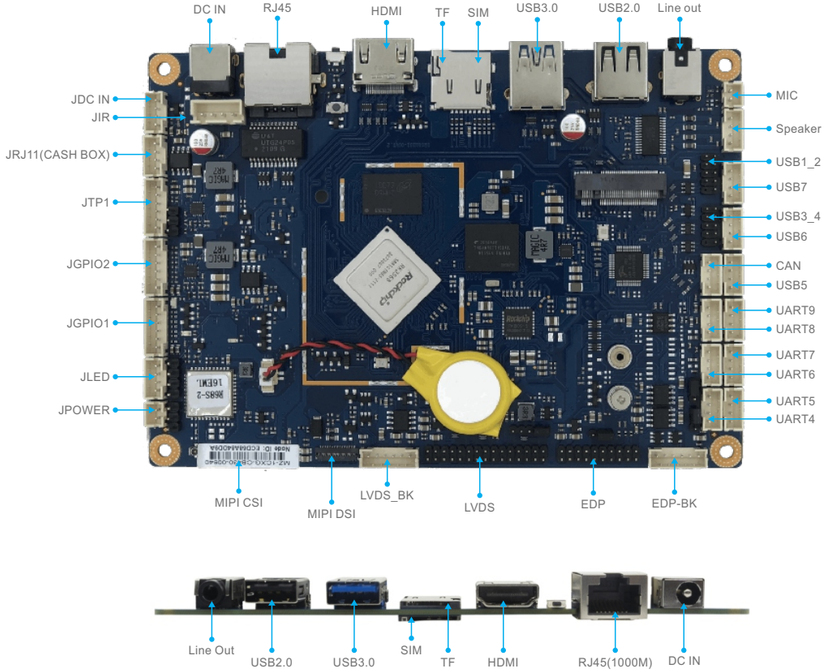
R68S

RK3568 KIOSK Motherboard



- RK3568 4Core SOC, ARM Cortex-A55, Max. 2.0GHz;
- Onboard 2GB LPDDR4/4X (optional 4GB);
- Supports HDMI/LVDS/eDP/MIPI(option);
- Supports MIPI CSI Camera;
- Onboard 16GB EMMC (optional 8/16/32GB);
- 2.4G WIFI+BT4.2/2.4&5G WIFI+BT4.2;
- 9 x USB2.0, 6 x COM;
- 10/100/1000M Ethernet;
- Supports 4G/5G wireless network;
- Supports GPIO/I2C/CAN/Cash box/Watchdog;

Product View



Specifications

CPU	RK3568 4Core SOC, ARM Cortex-A55, Max. 2.0GHz
GPU	Mali-G52
Memory	2GB/4GB LPDDR4/4X optional
OS	Android 11/ Debian 10
Storage	Onboard 8GB EMMC (optional 16/32GB)
Audio	HD Audio IC, RK809-5
LAN	1 x 10/100/1000Mbps, RTL8111H
Wireless	Onboard 2.4G WIFI+BT4.2 / 2.4G&5G WIFI+BT4.2
Displays	1 x HDMI Type-A 1 ,30 Pin, 2 x 15PIN LVDS Port 1 ,20 Pin, 2 x 10PIN eDP Port 1 ,31 Pin, FPC MIPI DSI Port
Audio interfaces	1 x 3.5mm Auido jack: Line out with mic; Amplifier: 5W/4Ω x2 1 x Mic in (1*2pin 2.0mm wafer), 1 x Speaker(1*4pin 2.0mm wafer)
USB	IO: 1 x USB2.0, 1 x USB3.0, Internal: 7 x USB2.0
Serial	2 x RS232 Support 5/12V optional (4pin header) 2 x RS232/TTL optional 5V (4pin header) 2 x RS232/RS485/TTL optional 5V (4pin header)
Expansion	1 x M.2 for 4G/5G mobile network module 1 x TF Slot 1 x Micro SIM Slot 1 x TP-I2C(1*6pin 2.0mm wafer) 2 x GPIO header (1*6pin 2.0mm wafer) support 7GPIO, 1 ADC 1 x IR header (1*4pin 2.0mm wafer) 1 x LED header (1*4pin 2.0mm wafer) 1 x CAN header (1*4pin 2.0mm wafer) 1 x Cash Box header (1*4pin 2.0mm wafer) 1 x POWER header (1*2pin 2.0mm wafer) 1 x 12V DC IN header (1*4pin 2.54mm wafer)
Power	12V DC input
SIZE	146mm x 102mm
Working condition	-5~50℃, 10%~90% non-condensing
Storage condition	-20~70℃, 5%~90% non-condensing

Ordering Information

Model	Description
R68S-A1	RK3568/2G/16G/4*RS232/2*RS485/LVDS+EDP+MIPI+HDMI/LAN/2.4G WIFI+BT4.2
R68S-B1	RK3568/2G/16G/6*RS232/EDP+MIPI+HDMI/LAN/2.4G WIFI+BT4.2

API Graphing Tool (SPIRIT)

SPIRIT is a tool for Android system developed by JWIPC based on 130+ (still increasing) APIs. It has a number of software intellectual property rights. It is the first tool in the industry to achieve graphical interaction of Android APIs. The parameters are configured through the interface. Users can easily complete the system customization, aiming to help customers quickly and easily use ARM products, speed up the project deployment progress, and create greater benefits for the enterprise.

SPIRIT Value

1. Quickly complete custom settings

Quickly light up the display;
Navigation bar and status bar settings;
Power Management Setup;
Customize boot LOGO, system equipment model;
Configure 4G module Ril library;

2. Shorten the project import cycle

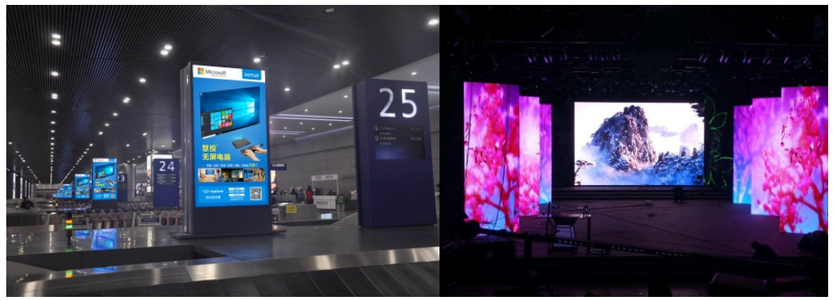
Sample delivery setup can be completed within 1 hour;
1 non-professional completed the small-scale deployment;
One configuration parameter can complete customized firmware;

3. Rapid product replacement

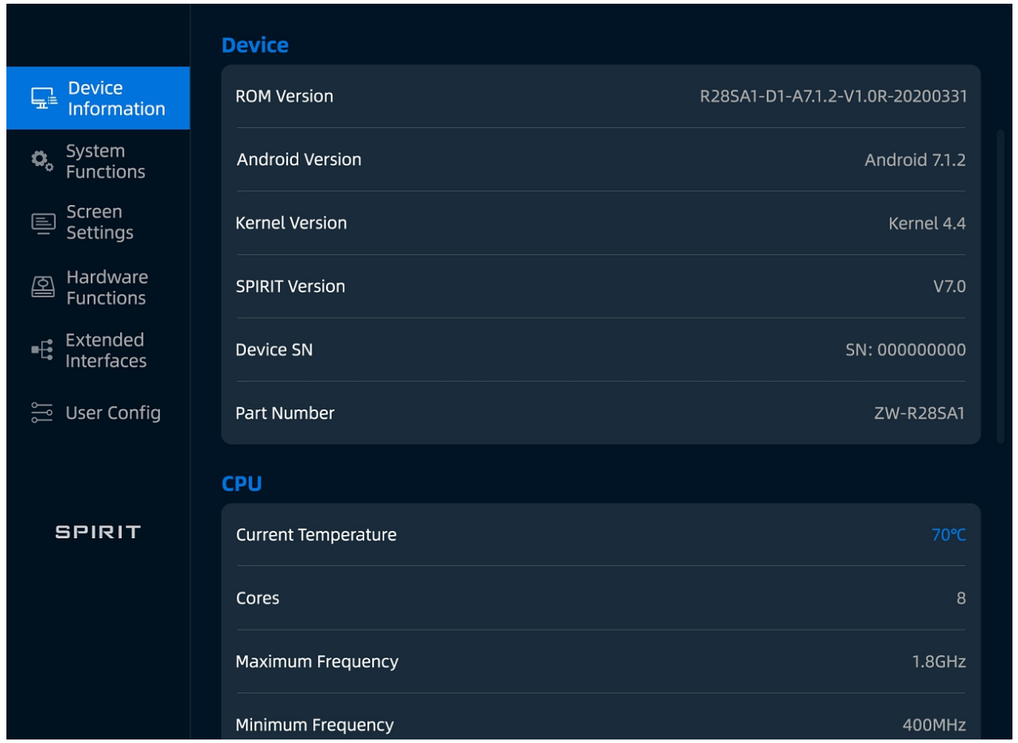
JWIPC updated products are fully compatible with SPIRIT, and system configuration and application development based on SPIRTI can be perfectly used in new platforms and new products;

4. Reduce software team cost input

SPIRIT can greatly reduce the workload of software development. Most of the conventional software requirements can be configured through SPIRTI graphically. FAE and testers can also complete functional verification directly through SPIRIT.



SPIRIT Function



Device Information

Device Information
CPU & GPU
Memory & Storage
LOG

System Functions

Control Option
Install Upgrade

Screen Setting

System Display
Hardware Display

Hardware Functions

LAN
Mobile
Audio

Extended Interfaces

GPIO Setting
I2C Setting
COM Test
i-Guardian

User Config

System Profile
Point Screen

JWIPC Digital Signage Solution
Multimedia information release solution

Information release platform management server
Xeon E Series



SYS-6019T
Intel C246
Xeon E Series processor
1×IPMI
2×1000M LAN
4×HDD
1×PCIE 16X

Information release Motherboard
ARM Motherboard



R18S
RK3188



R028S
RK3288



R039S
RK3399

Information Release Terminal
ARM Terminal



D028
RK3288



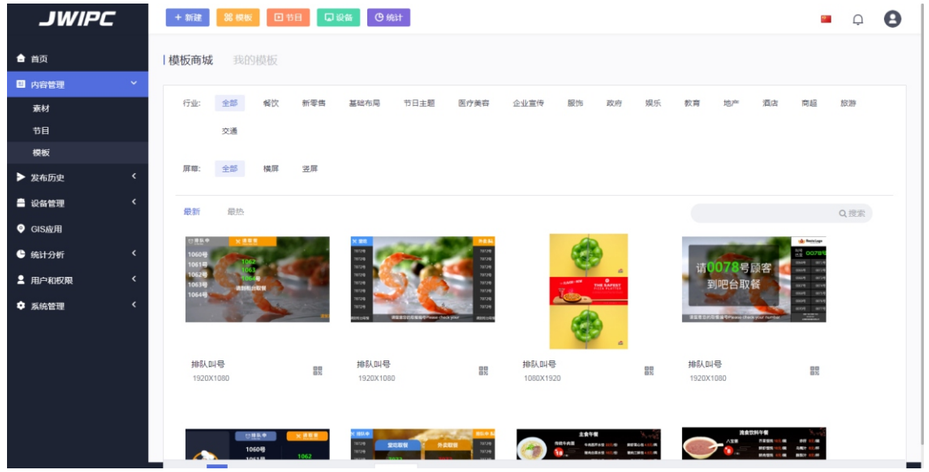
D039
RK3399

Video Wall Terminal
ARM Terminal



D028
RK3288

Information Release Platform Software



Information Release Application Software

