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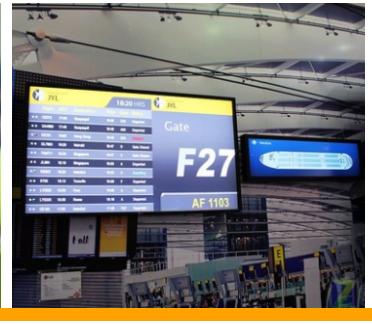
JWIPC











JWIPC ARM PRODUCT CATALOG

Advantage

10 + years of ARM development experience, **10 +** industries,
1000+ ARM products;
Complete ARM R&D system;
Rockchip industry product strategic partner;

Software

Firmware customization, providing 100+ API interfaces, graphical operation;
Rich experience in application scenario solution implementation;
Rich experience of third-party SDK and APK connection;

Quality

"Zero defect" quality management to ensure 1/1000 annual repair rate;
Strict supplier and material management, ensure 100% of original brand new materials;
The imes manufacturing system ensures that the product manufacturing process is controllable;

Application

The new platform with stronger computing power guides the intelligent upgrading of industries;
The cloud interactive management platform can quickly realize the scenarios construction;
A variety of edge devices to integrate multiple business scenarios;

Delivery

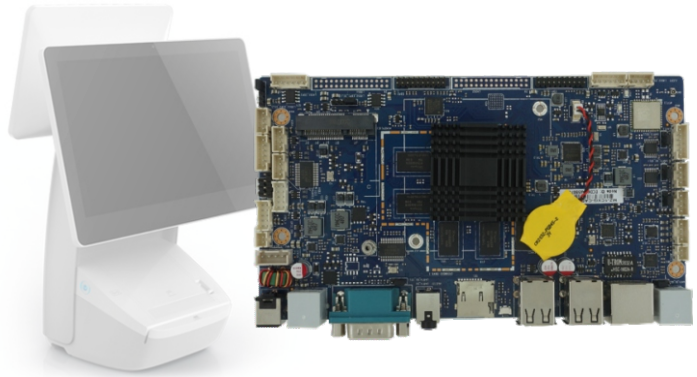
Manufacturing factory, 15 SMT high-speed lines to ensure high-quality delivery;
Improve the delivery plan, KK class capacity to ensure the order on time and quantity delivery;
Large scale supply chain to ensure high cost performance of delivered products;

Innovation

SPIRIT, the first graphical firmware development tool, complete the new firmware development within 10 minutes;
Many industries provide AI computing power and algorithms to ensure intelligent upgrading of industry scenarios;
For H5 interactive application development, modularized development business scenarios are customized according to business requirements;

Retail

JWIPC POS Motherboard-R28P



Type	Spec
CPU	RK3288W 4 CORE A17, Max 1.6GHz
Memory	DDR3L, Max 4G
Storage	Onboard eMMC, Option 8/16/32G
Display	LVDS+EDP/LVDS+LVDS/EDP+EDP (Three choose two, Dual display)
TF	Support
USB	8×USB 2.0
COM	3×COM
LAN	1×10/100M Ethernet
WIFI	Option 2.4G, WIFI+BT
4G	Support extended Mini PCIe 4G module
Amplifier	Support 2 X 3W/4Ω SPK out
RJ11	Support
Watchdog	Support hardware level watchdog
RTC	Support
WOL	Support
IR	Support for extended infrared receivers
GPIO	Support
Power	12V DC IN
SIZE	170×85mm
OS	Android 7.1

JWIPC Vending Terminal-K028



Type	Spec
CPU	RK3288W 4 CORE A17, Max 1.6GHz
Memory	DDR3L, Max 4G
Storage	Onboard eMMC, Option 8/16/32G
Display	HDMI + VGA Dual display
TF	Support
USB	6×USB 2.0
COM	4×COM
LAN	1×10/100/1000M Ethernet
WIFI	Option 2.4G/5G, WIFI+BT
4G	Support extended Mini PCIe 4G module
Watchdog	Support hardware level watchdog
RTC	Support
WOL	Support
Power	12V DC IN
SIZE	190(L) x 147.8(W) x 30.4(H)mm
OS	Andorid 7.1/Ubuntu 18.04

JWIPC Vending Terminal-K039



Type	Spec
CPU	RK3399 2 CORE A72+ 4 CORE A53
Memory	LPDDR4, Max 4G
Storage	Onboard eMMC, Option 8/16/32G
Display	HDMI2.0 + LVDS + eDP dual display
TF	Support
USB	2×USB 3.0 + 7×USB 2.0
COM	1×RS232, 2×RS485
LAN	1×10/100/1000M Ethernet
WIFI	Option 2.4G/5G, WIFI+BT
4G	Support extended Mini PCIe 4G module
Ai	Support extended Mini PCIe AI Accelerator Card
Watchdog	Support hardware level watchdog
RTC	Support
WOL	Support
Power	12V DC IN
SIZE	190(L) x 148(W) x 30(H)mm
OS	Android 7.1/Ubuntu 18.04

Cloud Computing

JWIPC Cloud Terminal-T418



Type	Spec
CPU	Rk3188 up 1.6GHz SOC (ARM Cortex-A9 4 CORE)
Memory	Onboard 1GB DDR3L (2G optional)
Storage	Onboard 8GB eMMC (16G optional)
Display	HDMI×1 + VGA×1
USB	6×USB 2.0 Type-A
LAN	1×10/100M Ethernet
WIFI	N/A
4G	N/A
Phone	3.5mm Line out
MIC	3.5mm Mic in
Amplifier	N/A
Watchdog	Support
RTC	Support
WOL	Support
Power	12V 1.5A
SIZE	125(L)×125(W)×30(H) mm
OS	Android 4.4

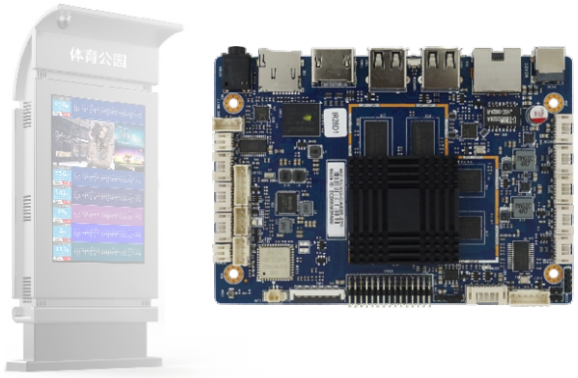
JWIPC Cloud Terminal-C528



Type	Spec
CPU	RK3288W 4 CORE A17, Max 1.6GHz
Memory	Onboard 1GB DDR3L (2G optional)
Storage	Onboard 8GB eMMC (16G/32G optional)
Display	HDMI×1 + VGA×1
TF	N/A
USB	6×USB 2.0 Type-A
LAN	2×10/100/1000M Ethernet (Option single LAN)
WIFI	Onboard 2×2802.11b/g/n/ac 2.4/5G WIFI+BT4.1 Module (Option)
4G	N/A
Phone	3.5mm Line out
MIC	3.5mm Mic in
Amplifier	N/A
Watchdog	Support
RTC	Support
WOL	Support
Switch	Dual-network isolation only
Power	12V 1.8A
SIZE	125(L)×138(W)×30(H) mm
OS	Android 5.1/Debian9

Digital Signage

JWIPC Digital Signage Motherboard-R28D



Type	Spec
CPU	RK3288W 4 CORE A17, Max 1.6GHz
Memory	DDR3L, Max 4G
Storage	Onboard eMMC, Option 8/16/32G
Display	HDMI2.0 + LVDS + eDP dual display
TF	Support
USB	6×USB2.0 Type-A
COM	2×COM
LAN	1×10/100M Ethernet
WIFI	Option 2.4G/5G, WIFI+BT
Amplifier	Support 2×8W/8Ω SPK out
Watchdog	Support hardware level watchdog
RTC	Support
WOL	Support
IR	Support for extended infrared receivers
Power	12V DC IN
SIZE	126×87mm
OS	Android 7.1/Ubuntu 18.04

JWIPC Digital Signage Terminal-D028



Type	Spec
CPU	RK3288W 4 CORE A17, Max 1.6GHz
Memory	DDR3L, Max 4G
Storage	Onboard eMMC, Option 8/16/32G
Display	HDMI + VGA dual display
TF	Support
USB	4×USB 2.0
LAN	1×10/100/1000M Ethernet
WIFI	Option 2.4G/5G, WIFI+BT
Watchdog	Support hardware level watchdog
RTC	Support
WOL	Support
IR	Support infrared remote control
Power	12V DC IN
SIZE	118(L) X 118(W) X 31(H)mm
OS	Android 7.1/Debian 9

JWIPC Digital Signage Terminal-D039

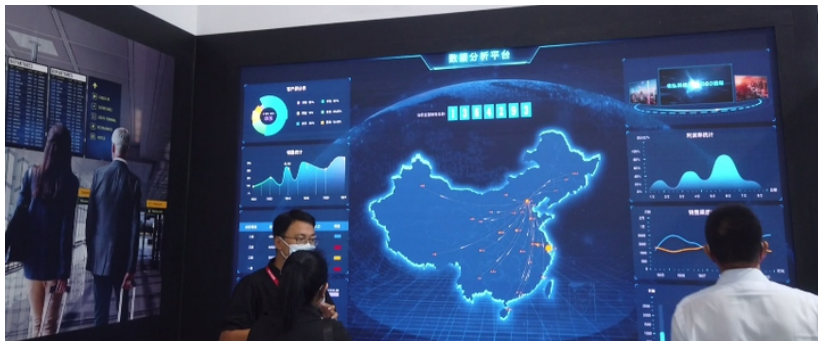


Type	Spec
CPU	RK3399 2 CORE A72 + 4 CORE A53
Memory	LPDDR4, Max 4G
Storage	Onboard eMMC, Option 8/16/32G
Display	HDMI2.0
TF	Support
USB	1×USB 3.0 + 3×USB 2.0
LAN	1×10/100/1000M Ethernet
WIFI	2.4G/5G MIMO WIFI+BT
Watchdog	Support hardware level watchdog
RTC	Support
WOL	Support
IR	Support infrared remote control
Power	12V DC IN
SIZE	128(L) X 128(W) X 30(H)mm
OS	Android 7.1/Ubuntu 18.04



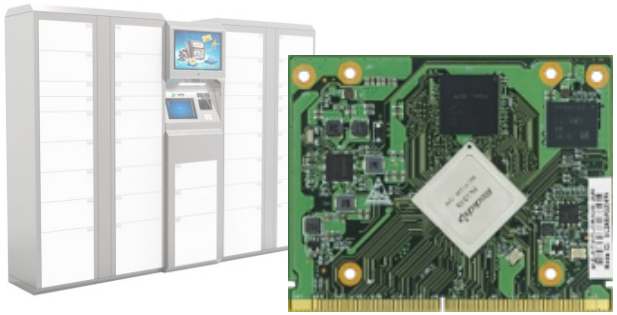






Wisdom Logistics

JWIPC Delivery Lockers Motherboard-JSC3399A1



Type	Spec
CPU	RK3399 2 CORE A72+ 4 CORE A53
Memory	LPDDR4, Max 4G
Storage	Onboard eMMC, Option 8/16/32G
LAN	1×10/100/1000M Ethernet
Main functions of goldfinger	1×4 Lane eDP
	1×4 Lane MIPI DSI
	1×DP 1.2
	1×HDMI 2.0
	1×Gigabit Ethernet
	1×UART, 1×Debug
	1×USB 2.0 HOST, 1×USB 2.0 OTG
	1×USB 3.0
	1×2 Lane MIPI CSI 和 1×4 Lane MIPI CSI
	1×PCIE 2.0
	1×SDMMC
	1×4bit SDIO
	I2S, SPI, IR, PWM, Recover, Watchdog, Touch pad, ADC等
Power	12V DC IN
SIZE	82×65mm
OS	Android 7.1/Ubuntu 18.04

JWIPC Delivery Lockers Tablet-PPC15RK39



Type	Spec
CPU	RK3399 2 CORE A72 + 4 CORE A53
Memory	LPDDR4, Max 4G
Storage	Onboard eMMC, Option 16/32/64G
Display	HHDMI 1.4b + LVDS
TF	Support
Touch	15" Infrared touch screen
USB	1×USB3.0 + 5×USB2.0
LAN	1×10/100/1000M Ethernet
COM	4×COM
WIFI	2.4G/5G WIFI+BT
4G	Support extended Mini PCIe 4G module
Watchdog	Support hardware level watchdog
RTC	Support
WOL	Support
Power	12~19V DC IN
SIZE	336.40(L)×264.40(W)×56.70mm(H)
OS	Android 7.1/Ubuntu 18.04

Access Control

WIPC Face Recognition Motherboard-R19S



Type	Spec
CPU	Rockchip RV1109 Dual Core A7, Max 1.5GHz
Memory	Onboard DDR4, optional 1GB / 2GB
Storage	Onboard EMMC, optional 4GB / 8G / 16GB
LAN	1×10/100Mbps, CON2
WIFI/BT	Onboard RTL8189FTV, support 2.4G
Extend Pin	1×Mic in, 2pin 1.25mm wafer 1×Speaker, 2pin 1.25mm wafer, 2W/4Ω 1×USB2.0, OTG, CON2 1×USB2.0, 4pin 1.25mm wafer 1×RS232, CON1 1×RS485, CON1 1×TTL, CON1 2×TTL, 4pin 1.25mm wafer 1 x CTP, FPC, 6pin 1×MIPI CON, FPC, 31pin 1×MIPI CON, FPC, 40pin 1×GPIO, 2pin 1.25mm wafer 1×GPIO, CON2 1×ALS CON, 3pin 1.25mm wafer 1×IR CON, 2pin 1.25mm wafer 1×MICE, 3pin 2.54 mm Header 1×Power BTN CON, 2pin 1.25mm wafer
Watchdog	Support hardware level watchdog
Power	12V DC IN
SIZE	100×72MM
OS	LINUX

JWIPC Temperature measurement & Face recognition machine-P019



Type	Spec
CPU	Rv1109, 1.5GHz
NPU	1.2T FLOPS
Memory	1GB/2GB DDR4
Storage	4GB/8GB/16GB EMMC
Screen Size	8inch, Full view, highlighting 350~450 lumens
Resolution	1280×800 PorTrait
Screen Angle	Elevation 0~30°, Left and right shafts are adjustable
Camera	Binocular camera, 2 million wide motion
Measuring Temperature	Optional support, Temperature measuring distance 0.5M~1M, 30~45°C, Error ±0.4°C
Identification distance	0.5~1.5M
Fill light distance	⩽1.5M
Identification Module	Local identification, offline support, support mask identification
Identification Speed	＜0.2S
Recognition accuracy	＞99.8%
User Capacity	5000~50000
Recognition Mode	Support 1:1 & 1:N two mode
Living security	Built-in vivisection anti-counterfeiting algorithm
Extension interface	Support 12V Power input; RJ45, Support data upload and download; USB2.0(OTG)
Commubication	TCP/IP Support for offline mode
Wireless	Support WiFi, 4G
Same time capture	1
Speaker	Support
SIZE	240×125×20mm
Waterproof Rate	IP54
Work Environment	-20~70°C, 90%RH

Smart Education

JWIPC Class Signage-R28C



Type	Spec
CPU	RK3399 2 CORE A72+ 4 CORE A53
Memory	LPDDR4, Max 4G
Storage	Onboard eMMC, Option 8/16/32G
Display	HDMI(Option) + LVDS
TF	Support
USB	6×USB 2.0
COM	2×COM
LAN	1×10/100M Ethernet
WIFI	Option 2.4G/5G WIFI+BT
Amplifier	Support 2 x 3W/4Ω SPK out
MIPI	Support 1 x MIPI CSI
Watchdog	Support hardware level watchdog
RTC	Support
WOL	Support
Power	12V DC IN
SIZE	125mm(L)×110mm(W)×14mm(H)
OS	Android 7.1

Education Tablet-M10A



Type	Spec
CPU	MT8788 SOC, Quad-core ARM Cortex-A73+ Quad-core ARM Cortex-A53 Frequency 2.0GHz
Memory	3G/4G (Option)
Storage	32G/64G(Option)
Screen	10.1 IPS FHD 1200×1920
Camera	Frout 500W + Rear 1300W(With flash)
Touch screen	G+FF 10 points touch
WIFI/BT	802.11 a/b/g/n/ac, 2.4/5G WIFI+BT4.2
Sensor	Light Sensor & Distance, G-sensor, compass, gyroscope, HALL
GPS	Support
Speaker	6Ω/1W×4 BOX
Battery	Polymer battery, 3.8V 7100mAh
I/O	1×Type-C, Charge Jack; 1×TF Card; 1×POGO PIN(connect with keyboard)
KEY	1×POWER; 1×Audio +/-; 1×Reset
Touch pen	Support(Option)
Keyboard	Support(Option)
SIZE	243×162×8.8 mm
Weight	0.35kg
Material	Metals
Power	5V-2.0A, Type-C

Industrial Control

JWIPC BOX PC-NX85



Type	Spec
CPU	NXP I.MX 8X 2 CORE/4 CORE A35
Memory	LPDDR4, Max 4G
Storage	Onboard eMMC, Option 8/16/32G
Display	HDMI + LVDS
TF	Support
USB	2×USB 3.0 + 2×USB 2.0
COM	6×COM
LAN	1×10/100/1000M Ethernet
WIFI	2.4G/5G WIFI+BT
Watchdog	Support hardware level watchdog
RTC	Support
WOL	Support
Power	12V DC IN
SIZE	1170(L) X 105(W) X 43(H)mm
OS	Android 9.0/Yocto 2.7
Working Temperature	-20~+70℃

Wisdom Lamp Posts

Wisdom Lamp Posts Gateway-N43



Type	Spec
CPU	NXP LS1043A ARM Cortex-A53 4 CORE
Memory	LPDDR4, Max 4G
Storage	Onboard eMMC, Option 8/16/32G
USB	1×USB 3.0
COM	4×RS485, 2×RS232, 4
GPIO	4×GPIO
LAN	Support 8×10/100/1000M RJ45, 2×1G SFP COM
WIFI	2.4G/5G WIFI + BT
Watchdog	Support hardware level watchdog
RTC	Support
WOL	Support
Working Temperature	-20~+70℃

Wisdom Conference

JWIPC Conference Terminal-S039



Type	Spec
CPU	RK3399 2 CORE A72 + 4 CORE A53
Memory	LPDDR4, Max 4G
Storage	Onboard eMMC, Option 8/16/32G
Display	HDMI2.0(JAE) + HDMI (FHD Frout)
HDMI IN	Option support one 1080P HDMI IN
TF	Support
USB	1×USB 3.0 + 3×USB 2.0
LAN	1×10/100/1000M Ethernet(Option dual LAN)
WIFI	Option 2.4G/5G WIFI+BT
4G	Support extended Mini PCIe 4G module
OPS(80PIN)	1×HDMI 2.0, 2×USB2.0, 1×USB3.0, 1×TTL, Line out, DC IN
Watchdog	Support hardware level watchdog
RTC	Support
WOL	Support
IR	Support extended 3.5mm audio hole IR receiver
Power	12~19V DC IN
Size	Suitable for OPS standard dimensions, 119×180×30mm
OS	Android 7.1/Ubuntu18.04

SDWAN

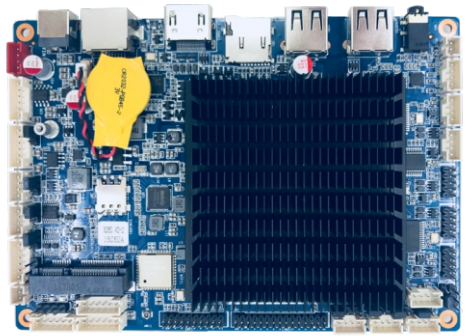
JWIPC SDWAN



Type	Spec
CPU	NXP LS1043A ARM Cortex-A53 4CORE
Memory	1G
Storage	Onboard eMMC 8G
USB	1×USB 2.0
COM	1×console(RJ45 Connetor)
LAN	Support 5 or 6×10/100/1000M Switch interface
Network	Support extended 4G/5G modules
ANT	6×ANT
SIZE	270×167×40mm
Working Tempreture	-10~+70℃

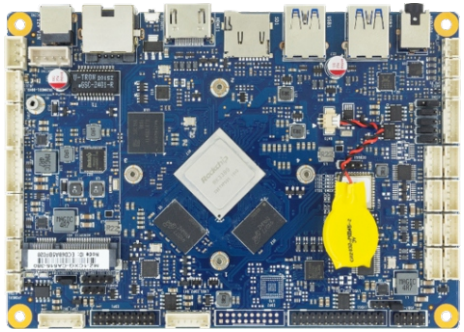
General motherboard

JWIPC 3.5inch Motherboard-R28S



Type	Spec
CPU	RK3288W 4 CORE A17, Max 1.6GHz
Memory	DDR3L, 1GB/2GB Optional
Storage	Onboard eMMC, Option 8/16/32G
Display	HDMI + LVDS + eDP dual display
TF	Support
USB	10×USB 2.0
COM	7×COM
LAN	1×10/100M Ethernet
WIFI	Option 2.4G/5G WIFI+BT
4G	Support extended Mini PCIe 4G module
Amplifier	Support 2×3W/4Ω SPK out
Watchdog	Support hardware level watchdog
RTC	Support
WOL	Support
IR	Support infrared remote control
Power	12V DC IN
Size	Standard 3.5 inch (146×102mm)
OS	Android 7.1/Ubuntu 18.04

JWIPC 3.5inch Motherboard-R39S



Type	Spec
CPU	RK3399 2 CORE A72 + 4 CORE A53
Memory	LPDDR4, Max 4G
Storage	Onboard eMMC, Option 8/16/32G
Display	HDMI2.0 + eDP/LVDS + eDP dual display
TF	Support
USB	2×USB 3.0 + 6×USB 2.0
COM	5×COM, One of them supports Rs485
LAN	1×10/100/1000M Ethernet
WIFI	Option 2.4G/5G WIFI+BT
4G	Support extended Mini PCIe 4G module
Amplifier	Support 2×3W/4Ω SPK out
Watchdog	Support hardware level watchdog
RTC	Support
WOL	Support
IR	Support infrared remote control
Power	12V DC IN
Size	Standard 3.5 inch (146×102mm)
OS	Android 7.1/Ubuntu 18.04

API Graphing Tool (SPIRIT)

SPIRIT
精 灵 软 件

SPIRIT is a graphical API call software developed by JWIPC based on Android system, which has been developed to version 5.0.

The graphic domain reduces the difficulty of customer application development, so that ordinary personnel can operate. It improves the efficiency of arm products in the selection, upgrading, technical support, production and after-sales.

Category	Traditional API Call	JWIPC SPIRIT Tool
Implementation Mode	Substratum	Graphical operation
Staff requirements	Software professional	General staff
Function upgrade	One week	Half Day
Technical Support	ODM Support	Themselves



Firmware API call

API (Application Programming Interface) is some pre-defined functions, or refers to the convergence of different components of a software system. The purpose is to provide the ability for application and developers to access a set of routines based on a certain software or hardware without accessing the original code or understanding the details of the internal working mechanism.

In order to facilitate customers to develop and apply based on JWIPC ARM products , the firmware API interfaces are sorted out in six categories, and the corresponding call instructions are provided to help customers quickly build applications. The six categories of functions are as follows: device information, system functions, display setting, hardware functions, extended interfaces and application control.

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

i-Guardian
GPIO Setting
I2C Setting
COM Test
i-Guardian

Application Control

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

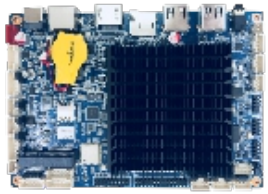
Information release Motherboard
ARM Motherboard



R18S
RK3188



R028S
RK3288



R039S
RK3399

Information Release Terminal
ARM Terminal



D028
RK3288



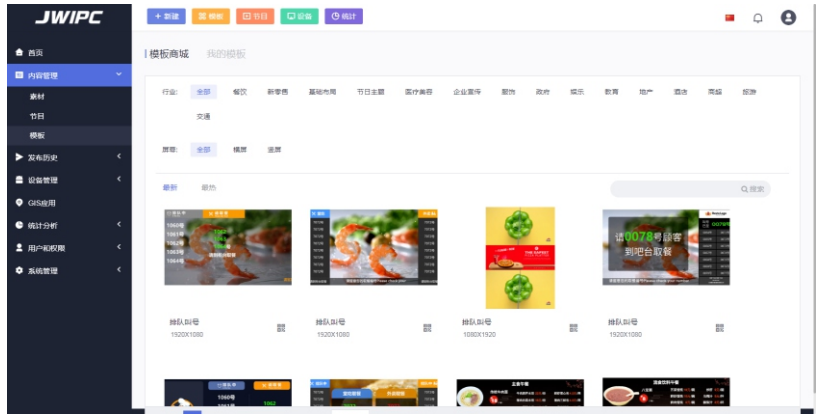
D039
RK3399

Video Wall Terminal
ARM Terminal



D028
RK3288

Information Release Platform Software



Information Release Application Software



JWIPC Smart Education
Interactive Education Solution

Interactive Education Platform server

Xeon E Series



SYS-6019T

Intel C246
Xeon E Series Processor
1×IPMI
2×1000M LAN
4×HDD
1×PCIE 16X

Hanging terminal

10 inch wall hanging



R7
HI3531D

OPS Terminal

Electronic Whiteboard Terminal



R8
HI3531A

Portable AIO machine

15-inch mobile terminal



R9
HI3531D

Desktop Terminal

3 in 1 terminal



R10
HI3531D

Interactive Education Platform software



Interactive Education Application software



JWIPC Access Control Solution
Temperature Detection & Face Recognition

Access Control Platform Host
CORE Series

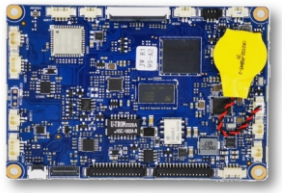
K065
Intel i5 8265U



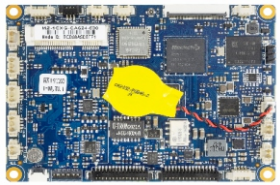
Access Motherboard
RV1109 Series



R19N



R19S



R19F

Access Module



P019D



P019V

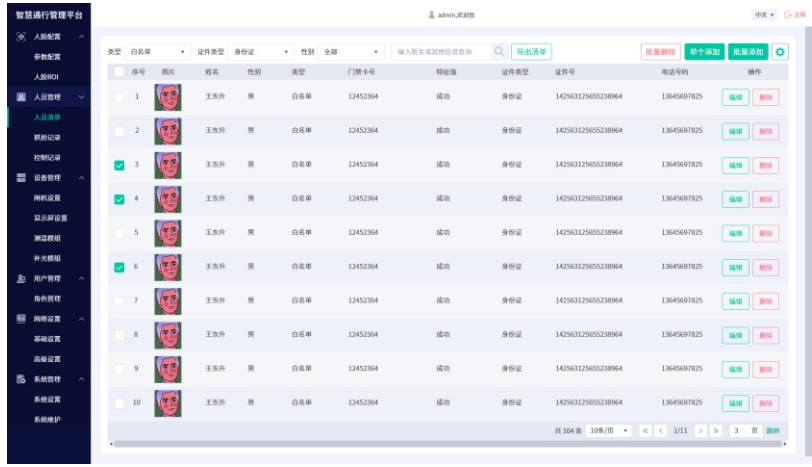


P019W



P019T

Access Control Platform Software



Access Control Application Software

