Your Trustworthy Industrial IoT Partner

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Edge Brain , Connecting Everything



Industrial Personal Computers(IPCs)

Industrial IoT Gateways Ranked First in China by Online Sales for Seven Consecutive Years*

*Data from China's Industrial IoT Gateways Market Research in 2023 by Frost & Sullivan

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National "little giant" Firms

National High-Tech Enterprise



28M$ Funding
28 Million Dollars
Series A B C Rounds Total

97+ Countries
97+ Countries using our products

25 M+
25 M+ Devices deployed worldwide

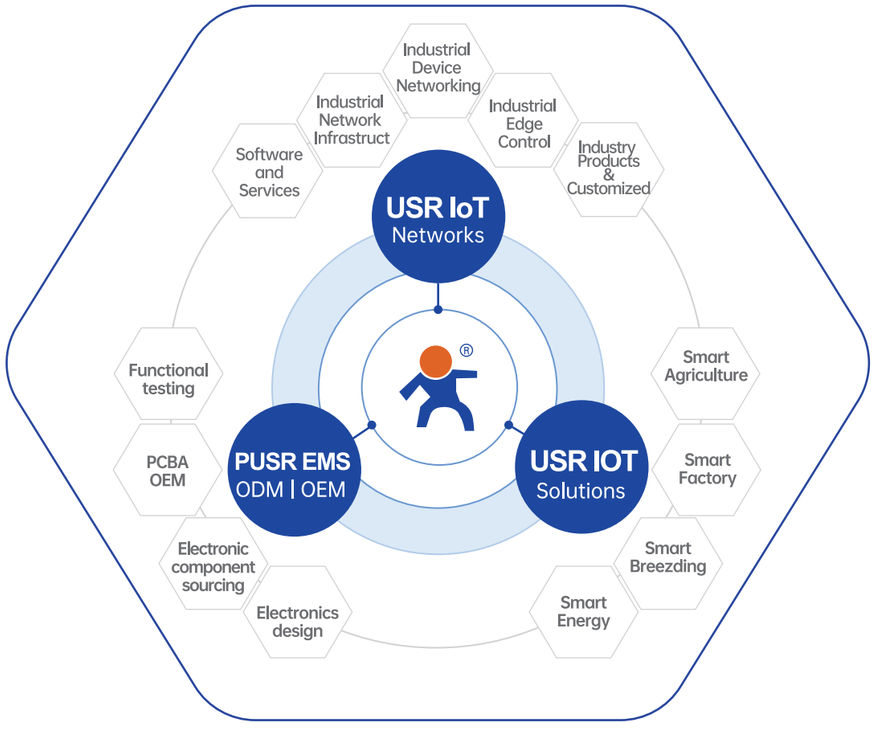
3 Business
USR IOT networks,
USR IIOT solutions, PUSR EMS

2 Factories
Jinan/Suzhou

Your Trustworthy Industrial IoT Partner

Leading industrial IoT software and hardware solutions provider
Shandong USR IOT Company Limited
With more than 600 employees and nearly $28 million in financing
Has own factory with full industry chain service capabilities from chips to cloud.
Provides customers with communication gateways, networking modules,cloud platforms and IoT solutions

Corporate Video



FACTORY OVERVIEW

10000

Suzhou: 7755 Square Meters(m²)
Jinan: 3400 Square Meters(m²)

10

Component placements per Day:
10 Million pcs
Capacity/Month:
More than hundreds of million

40%

R&D staff

11

SMT lines

Factory Video











Professional

Multi-layer PCB board design and various RF tuning capabilities

Quality

ISO9001:2015 certification
IATF16949:2016 certification

Delivery Time

Two factories,Professional supply chain management.

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PUSR CLOUD

PUSR CLOUD-An automated system dedicated to IoT system deployment

IoT Platform | Remote Networking | Gateway Management | SIM Card Management



PV Energy | Smart Factory | Smart Water Conservancy | Warehousing AGV Robotics | HVAC Water Utilities | Data-Driven Retail Ecosystem | Livestock Farming

IOT GATEWAYS

Network Infrastructure



Industrial Router
5G / 4G / WiFi7



Industrial Switch
Managed / PoE /
Fiber Optic Ring Network



Industrial Local Wireless
AP / Client / Bridge

Industrial Connectivity



4G Gateway
Edge DataAcquisition /
Transparent Transmission



Serial Device Server
Ethernet / WiFi to Serial



Industial LPWAN
LoRa / SparkLink /
Swarm / Satellite



CAN / Field Bus
CAN / Profinet / EthCAT /...



IoT Modules
Ethernet / Cellular / LoRa / WiFi

Intelligent Sensing device

Edge Computing



IoT Edge Gateway
PLC / IO Data Acquisition



Embedded Industrial PC
ARM / X86 Architectures;
AI Computing Power



Industrial ARM SBC
Full Range of RK
Solutions Available



Industrial Touch Panel PC
ARM / X86 Architectures;
ESOP



HMI & IO
HMI / Smart HMI / I/O

Smart Sensing



IoT Sensors
Sensing + Power Supply +
Transmission + Cloud



Industry Gateway
PV Data Stick / RTU



Customized Product
Custom Development;
PCBA Contract Manufacturing

Industrial Personal Computers (IPCs)

Built-in Edge Control System-WuKongEdge

ARM Industrial Computers:
Desktop, DIN-rail, Rack-mounted, ARM Industrial Panel PC, and ARM Industrial Single Board Computer

X86 Industrial Computers:
Desktop, X86 Industrial Panel PCs

HMI:
IoT-Enabled Smart HMI Panel, Industrial HMI Panel

Industry-specific Models:
Industrial AI Edge Computing Server, Energy Storage EMS Gateways, and ESOP work instruction displays



Industrial Personal Computers (IPCs)



ARM Industrial Computers
EG Series
P13-P15



X86 Industrial Computers
EC Series
P17



ARM All-in-One Industrial Computer
SH Series
P18



X86 Industrial Panel PCs
P Series
P17



ARM Industrial Single Board Computer
EV Series
P19-P20



HMI
H Series
P21



AI Computing Controllers
EG9 Series
P16



Data Acquisition Gateways
M Series
P22

ARM Industrial Personal Computer Selection Guide

Full-Interface Flagship Models

Basic Interface Models

Desktop Type

EG928



EG8 Series
EG828、EV808



EG5 Series
EG528



EG2 Series
EG228、EG218、EV208



Rack-mounted Type

EG1000

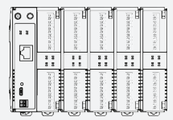


DIN-Rail Type

EG6 Series
EG628



EG3 Series
EG328



Arduino

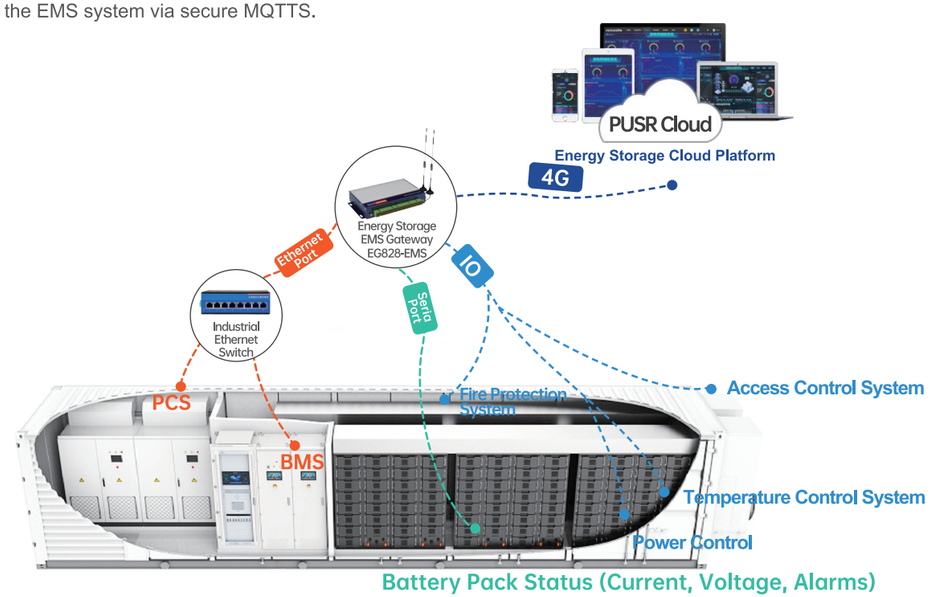
EG1 Series
EG118



All PUSR ARM Industrial Personal Computers Are Built on the WukongEdge Platform

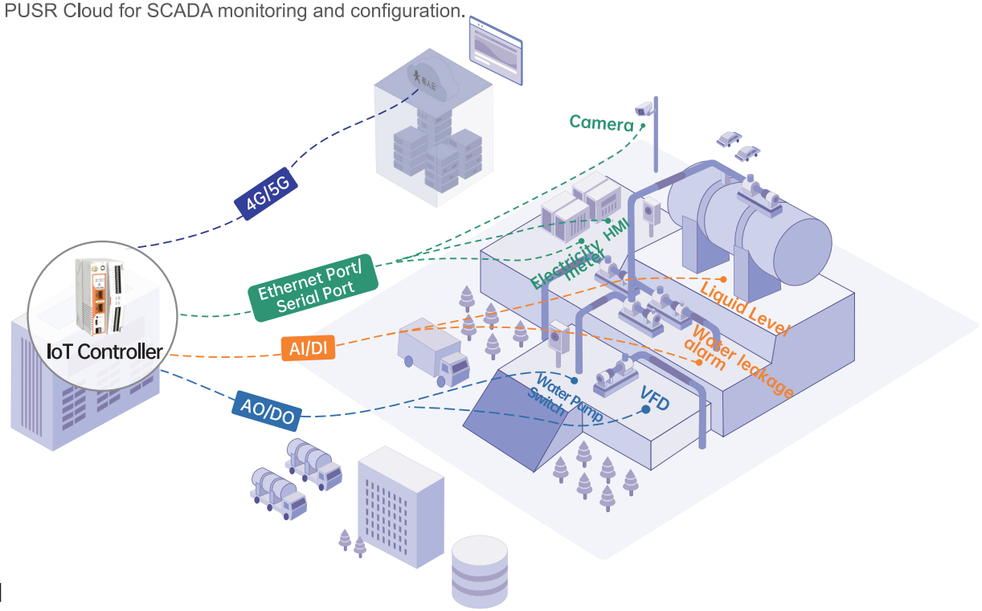
Energy Applications

Industrial PC EG828-EMS can serve as the core controller of an energy storage container. It collects massive data from BMS, PCS, access control, fire protection, temperature monitoring, and other subsystems at the edge side, and connects to the EMS system via secure MQTTS.



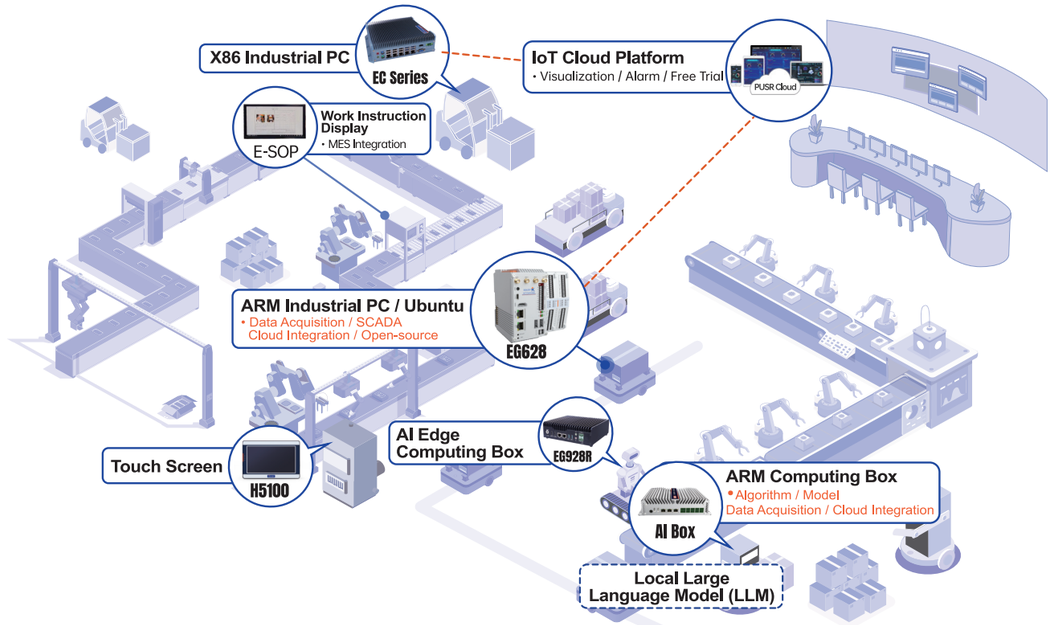
Unattended Pump Station / PID Constant Pressure Water Supply

M300 supports graphical programming and can be used like a PLC to develop various control logic. It supports connection to touch screens, cameras, sensors, instruments, inverters, electronic valves, and other field devices. It can also connect to PUSR Cloud for SCADA monitoring and configuration.



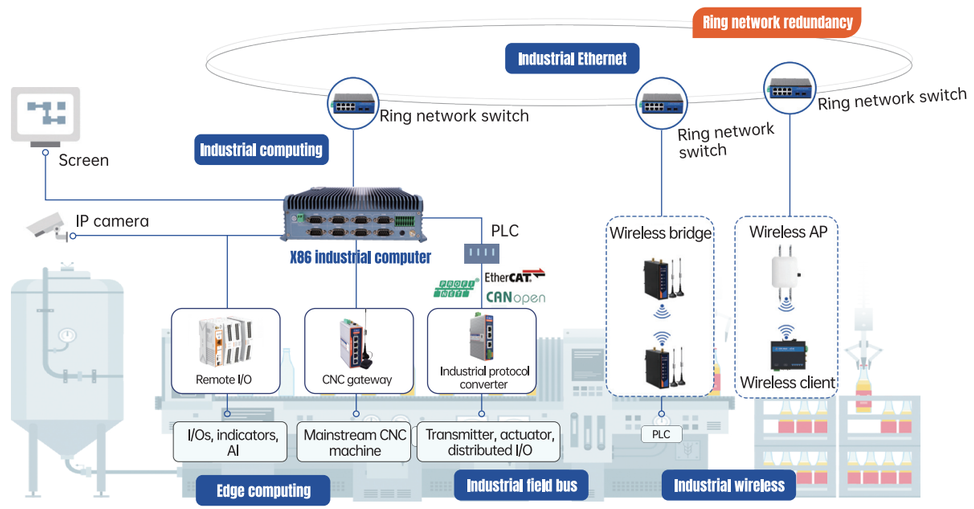
Fully Automated Factory

X86 industrial PCs and all-in-one touch panels are suitable for work instruction applications.
EG628 paired with an HMI panel enables production line data acquisition, local visualization, and algorithm development.
EG928 AI Edge Box empowers industrial robots with NPU-accelerated algorithms for efficient and autonomous operations.



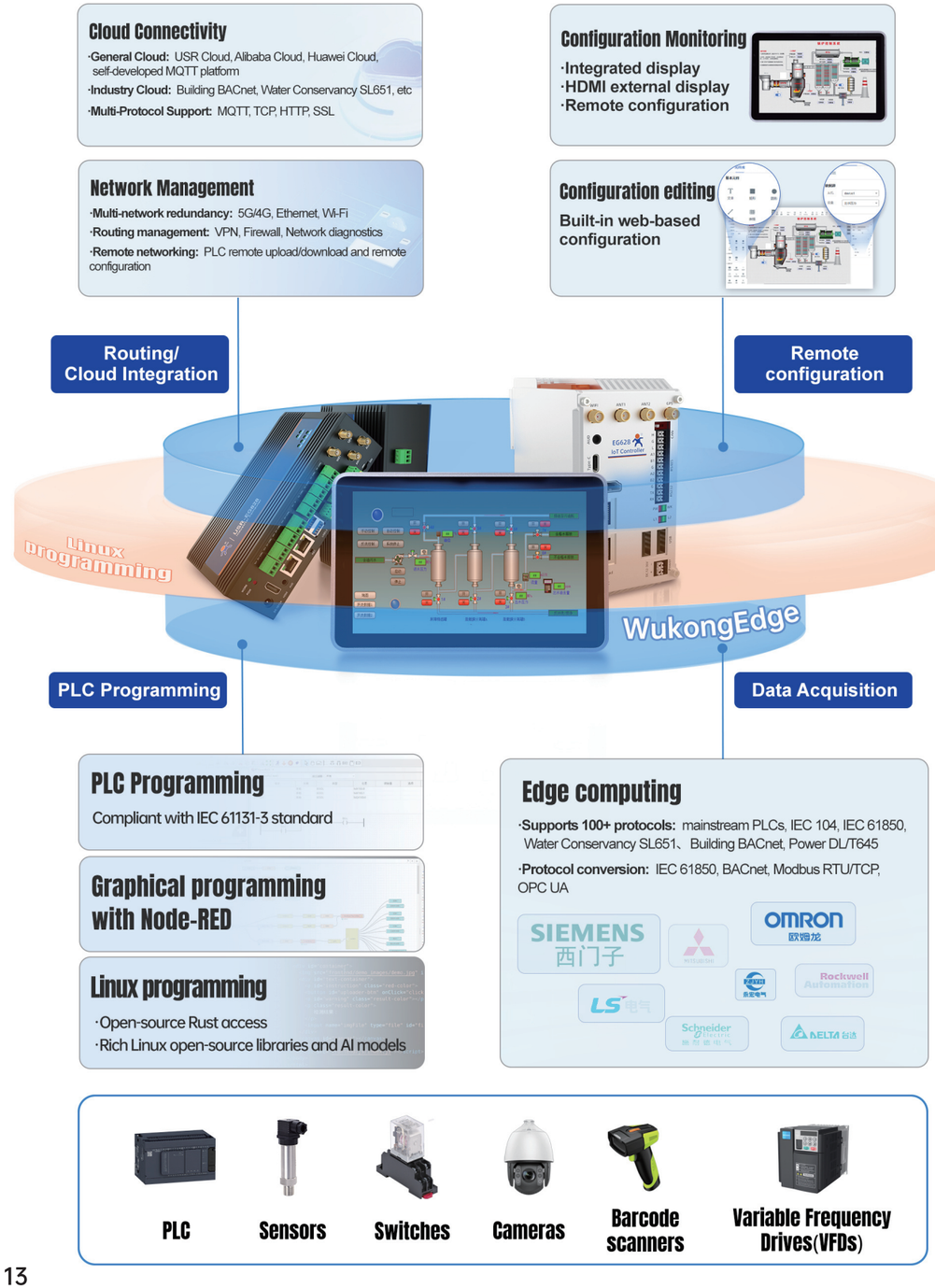
Automated Production Line

In automated production lines, this integrated solution combines PLC control, Modbus-to-PROFINET gateway, distributed I/O modules, CNC gateway, and X86 industrial PCs to achieve multi-protocol device interconnection, real-time data acquisition, and centralized monitoring — enhancing production intelligence and operational efficiency.



WukongEdge

The ARM industrial computer is built with the WukongEdge edge IoT platform, integrating data acquisition, PLC control, HMI configuration, and routing capabilities, serving as the control hub of IoT systems.



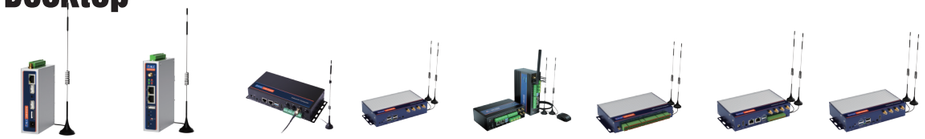
ARM DIN-Rail Type






Function / Model	USR-EG118	*USR-EG328	USR-EG628	*USR-EG628-S
CPU	ESP32	RK3506J	RK3562J	RK3576J
GPU	--	--	G52 2EE	Mali-G52 MC3
NPU	--	--	1Tops	6Tops
Memory (SRAM)	8MB	512MB	4GB	4GB
Storage (ROM)	4MB	8GB	32GB	32GB
Storage Card	--	SD card	SD card	SD card
Operating System	Arduino	Ubuntu22.04	Ubuntu20.04	Ubuntu22.04
Ethernet Port	1*10/100 Mbps Ethernet Port	2*10/100 Mbps Ethernet Port	1*10/100/1000 Mbps Ethernet Port 1*10/100 Mbps Ethernet Port	2*10/100/1000 Mbps Ethernet Port
Serial Port	1*RS485	2*RS485	2*RS485 1*RS232	2*RS485 1*RS232
USB	--	1*USB2.0	3*USB2.0	2*USB3.0 1*USB2.0
HDMI	--	--	HDMI 2.0	HDMI 2.0
CAN	--	2*CAN	1*CAN	1*CAN
Audio	--	√	√	√
Cellular	--	4G/5G Dual SIM Single Standby	4G/5G Dual SIM Single Standby	4G/5G Dual SIM Single Standby
WiFi	WIFI 2.4G	WIFI 2.4G	WIFI 2.4/5.8G	WIFI 2.4/5.8G
IO	2*DO/1*DI/1*AI	Expandable	Expandable	Expandable
RTC	--	√	√	√
Power Supply	9-36V	9-36V	9-36V	9-36V
Data Points	--	300	6000	6000
Acquisition Protocol	--	Modbus PLC Protocol DLT645	Modbus PLC Protocol IEC61850 IEC104 Bacnet IP DNP3.0 DLT645 *OPC UA	Modbus PLC Protocol IEC61850 IEC104 Bacnet IP DNP3.0 DLT645 *OPC UA
Protocol Conversion	--	Modbus JSON OPC UA	OPC UA IEC61850 IEC104 SL651 BACNET DNP3.0 HJ212 Modbus JSON	OPC UA IEC61850 IEC104 SL651 BACNET DNP3.0 HJ212 Modbus JSON
Offline Data Caching	--	√	√	√
Routing/VPN	--	√	√	√
Built-in Configuration	--	√	√	√
Node-Red	--	√	√	√
Communication Link	--	Dual Channel	Four Channels	Four Channels
Communication Protocol	--	TCP/MQTT	TCP/MQTT	TCP/MQTT
Communication Encryption	--	SSL	SSL	SSL
Reporting Method	--	Periodic / Change/ Scheduled	Periodic / Change/ Scheduled	Periodic / Change/ Scheduled
Reporting Format	--	Custom JSON	Custom JSON	Custom JSON
Linkage Trigger	--	Single Point / 10 Groups	Multiple Points / 50 Groups	Multiple Points / 50 Groups
Linkage Action	--	DO Action / Write Point / Platform Alarm / SMS Alarm	DO Action / Write Point / Platform Alarm / SMS Alarm	DO Action / Write Point / Platform Alarm / SMS Alarm
Remote Networking	--	√	√	√
Dimensions	79.6*58*110(mm)	--	87*60*118(mm)	87*60*118(mm)
Operating Temperature	-25~75℃	-25~75℃	-25~75℃	-25~75℃
Operating Humidity	5~95%(No condensation)	5~95%(No condensation)	5~95%(No condensation)	5~95%(No condensation)

ARM Desktop



Function \ Model	USR-EG218	USR-EG228	USR-EG528-K	USR-EG528-J	USR-EG828	USR-EG828-EMS	USR-EG828-S	USR-EG828-J
CPU	RK3568(RK3562/3576/3588)	RK3506J	RK3562	RK3562J	RK3568	RK3568J	RK3576	RK3576J
GPU	G52 2EE	--	G52 2EE	G52 2EE	G52 2EE	G52 2EE	Mali-G52 MC3	Mali-G52 MC3
NPU	1Tops	--	1Tops	1Tops	1Tops	1Tops	6Tops	6Tops
Memory (SRAM)	4GB	512MB	4GB	4GB	4GB	4GB	4GB	4GB
Storage (ROM)	64GB	8GB	32GB	32GB	32GB	32GB	64GB	32GB
Storage card	--	√	√	--	--	--	--	--
OS	Ubuntu20.04	Ubuntu22.04	Ubuntu24.04	Ubuntu20.04	Ubuntu20.04	Ubuntu20.04	Ubuntu22.04	Ubuntu22.04
Ethernet port	1*100M	2*100M	2*100M	1*1000M 1*100M	2*100M	4*1000M	2*1000M	2*1000M
Serial Port	2*RS485	2*RS485	4*RS485	8*RS485	2*RS485 2*RS232	8*RS485	2*RS485 2*RS232	8*RS485
USB	1*USB3.0 1*USB2.0	1*USB2.0	1*USB3.0 1*USB2.0	4*USB2.0	2*USB3.0	2*USB3.0	1*USB3.0 1*USB2.0	1*USB3.0 3*USB2.0
HDMI	HDMI 2.0	--	HDMI 1.4	--	HDMI2.0	HDMI2.0	HDMI2.0	HDMI2.0
CAN	--	2*CAN FD	optional features	2*CAN	1*CAN	2*CAN	--	2*CAN
Audio	--	--	1*Mic Output	1* Mic Output	1* Mic Output	--	1* Mic Output	1* Mic Output
Cellular network	--	4G Single SIM	optional features	optional features	4G/5G Single SIM	4G/5G Single SIM	optional features	optional features
WiFi	WIFI 2.4G	WIFI 2.4G	WIFI 2.4/5.8G	WIFI 2.4G	WIFI 2.4G	WIFI 2.4/5.8G	WIFI 2.4G	WIFI 2.4G
IO	--	--	--	4DO+6DI	2DO+4DI+4AI	6DO+16DI+4AI	--	6DO+6DI
RTC	√	optional features	√	√	√	√	√	√
Supply	12V/2A	9-36V/2A	9-36V/2A	9~36V/5A	12V/2A	12~48V/2A	12V/2A	9~36V/5A
Collection point	optional features (300-6000)	300（1000)	2000	6000	6000	6000	6000	6000
Collection Protocol	Modbus PLC Protocol DLT645	Modbus PLC Protocol DLT645	Modbus PLC Protocol IEC61850 IEC104 Bacnet IP DLT645 *OPC UA	Modbus PLC Protocol IEC61850 IEC104 Bacnet IP DNP3.0 DLT645 *OPC UA	Modbus PLC Protocol IEC61850 IEC104 Bacnet IP DNP3.0 DLT645 *OPC UA	Modbus PLC Protocol IEC61850 IEC104 Bacnet IP DNP3.0 DLT645 *OPC UA	Modbus PLC Protocol IEC61850 IEC104 Bacnet IP DNP3.0 DLT645 *OPC UA	Modbus PLC Protocol IEC61850 IEC104 Bacnet IP DNP3.0 DLT645 *OPC UA
Protocol conversion	optional features	Modbus / JSON	Modbus / JSON OPC UA / IEC61850 IEC104 / BACNET	OPC UA / IEC61850 IEC104 / SL651 BACNET / DNP3.0 HJ212 / Modbus JSON	OPC UA / IEC61850 IEC104 / SL651 BACNET / DNP3.0 HJ212 / Modbus JSON	OPC UA / IEC61850 IEC104 / SL651 BACNET / DNP3.0 HJ212 / Modbus JSON	OPC UA / IEC61850 IEC104 / SL651 BACNET / DNP3.0 HJ212 / Modbus JSON	OPC UA / IEC61850 IEC104 / SL651 BACNET / DNP3.0 HJ212 / Modbus JSON
Offline caching	optional features	Support (SD Card)	Support (SD Card)	Support (2G)	Support (2G)	Support (2G)	Support (2G)	Support (2G)
Router/VPN	optional features	√	√	√	√	√	√	√
Built-in configuration	optional features	√	√	√	√	√	√	√
Node-Red	optional features	√	√	√	√	√	√	√
Communicatio n link	optional features	2-way	4-way	4-way	4-way	4-way	4-way	4-way
Protocol	optional features	TCP/MQTT	TCP/MQTT	TCP/MQTT	TCP/MQTT	TCP/MQTT	TCP/MQTT	TCP/MQTT
Communicatio n Encryption	optional features	SSL	SSL	SSL	SSL	SSL	SSL	SSL
Reporting method	optional features	Cycle / Change / Scheduled	Cycle / Change / Scheduled	Cycle / Change / Scheduled	Cycle / Change / Scheduled	Cycle / Change / Scheduled	Cycle / Change / Scheduled	Cycle / Change / Scheduled
Reporting format	optional features	JSON custom definition	JSON custom definition	JSON custom definition	JSON custom definition	JSON custom definition	JSON custom definition	JSON custom definition
Linked trigger	optional features	Multi-points / 30 sets	Multi-points / 50 sets	Multi-points / 50 sets	Multi-points / 50 sets	Multi-points / 50 sets	Multi-points / 50 sets	Multi-points / 50 sets
action linkage	optional features	Write point / platform alarm / SMS alarm	Write point / platform alarm / SMS alarm	DO Action / Write Position / Platform Alarm / SMS Alarm	DO Action / Write Position / Platform Alarm / SMS Alarm	DO Action / Write Position / Platform Alarm / SMS Alarm	DO Action / Write Position / Platform Alarm / SMS Alarm	DO Action / Write Position / Platform Alarm / SMS Alarm
Off-site networking	optional features	√	√	√	√	√	√	√
EMC	--	--	--	Contact Discharge ±4KV Air discharge ±8KV	--	--	--	Contact Discharge ±4KV Air discharge ±8KV
Dimension	104*80*30.7(mm)	79*29*122(mm)	188*94*40(mm)	180*109*40(mm)	210*106*52(mm)	217.6*126.1*30.6(mm)	165*109*40(mm)	180*109*40(mm)
Operating temperature	-25~75℃	-25~75℃	-25~75℃	-25~75℃	-25~75℃	-25~75℃	-25~75℃	-25~75℃
Working humidity	5-95% (No condensation)	5-95% (No condensation)	5-95% (No condensation)	5-95% (No condensation)	5-95% (No condensation)	5-95% (No condensation)	5-95% (No condensation)	5-95% (No condensation)

Industrial AI Edge Computing Server



Function \ model	USR-EG928A	USR-EG928R	*USR-EG1000
CPU	RK3588J	EIC7700X	RK3588
GPU	Mali-G610	--	Mali-G610
NPU	6Tops(Extendable)	20Tops	6Tops(Extendable)
Memory (SRAM)	8GB	16GB	4GB
Storage (ROM)	128GB	128GB	32GB
Storage Card	√	--	√
OS	Ubuntu22.04	Debian	Ubuntu22.04
Ethernet port	3*1000M	2*1000M	4*1000M
Serial Port	2*RS485 4*RS232	1*RS485	8*RS485 (Extendable)
USB	2*USB3.0 2*USB2.0	2*USB3.0	4*USB3.0
HDMI	HDMI2.1	HDMI2.0	HDMI2.1
CAN	2*CAN	--	2*CAN
Audio	1* Mic Output	1* Mic Output	1* Mic Output
Cellular network	Optional selection	--	Optional selection
WiFi	WIFI 2.4G	--	WIFI 2.4/5.8G
IO	2DO+2DI	--	Optional selection
RTC	√	√	√
Supply	9~36V/5A	12V/5A	AC:100-240V DC:9-36V/5A
Collection point	6000	--	6000
Collection Protocol	Modbus PLC Protocol IEC61850 IEC104 Bacnet IP DNP3.0 DLT645 *OPC UA	--	Modbus PLC Protocol IEC61850 IEC104 Bacnet IP DNP3.0 DLT645 *OPC UA
Protocol conversion	OPC UA / IEC61850 / IEC104 SL651 / BACNET / DNP3.0 HJ212 / Modbus /JSON	--	OPC UA / IEC61850 / IEC104 L651 / BACNET / DNP3.0 HJ212 / Modbus / JSON
Offline caching	Support (SD Card)	--	Support (SD Card)
Router/VPN	√	--	√
Built-in configuration	√	--	√
Node-Red	√	--	√
Communication link	4-way	--	4-way
Protocol	TCP/MQTT	TCP/MQTT	TCP/MQTT
Communication Encryption	SSL	--	SSL
Reporting method	Cycle / Change / Scheduled	--	Cycle / Change / Scheduled
Reporting format	JSON custom definition	--	JSON custom definition
Linked trigger	Multi-points / 50 sets	--	Multi-points / 50 sets
action linkage	DO Action / Write Position / Platform Alarm / SMS Alarm	--	Write Position / Platform Alarm / SMS Alarm
Off-site networking	√	--	√
EMC	Contact discharge ±4KV / Air discharge ±8KV	--	--
Dimension	280*145*65(mm)	190*176*63.5(mm)	--
Operating temperature	-25~75℃	-25~75℃	-25~75℃
Working humidity	5-95% (No condensation)	5-95% (No condensation)	5-95% (No condensation)

Industrial Personal Computers (IPCs)-Desktop EC series





Feature/Model	USR-EC100	USR-EC300	USR-EC500
CPU	Celeron J6412	i5-7200U	i5-7200U
Memory(SRAM)	8GB(16GB)	8GB(16GB/32GB)	8GB(16GB/32GB)
Storage(ROM)	128GB Wide Temp SSD	128GB Wide Temp SSD	128GB Wide Temp SSD
Hard DriveExpansion	1*MiniPcie 1*MSATA	1*MSATA	1*MiniPcie 1*MSATA
Operating System	WIN10(WIN11/Ubuntu)	WIN10(WIN11/Ubuntu)	WIN10(WIN11/Ubuntu)
Display Interface	2*HDMI(4096*2160)	1*HDMI(4096*2160) 1*VGA(1920*1200)	1*HDMI(4096*2160) 1*VGA(1920*1200)
Ethernet Ports	2*1000M(RJ45)	2*1000M(RJ45)	5*1000M(RJ45)
WIFI	WIFI 2.4/5.8G	WIFI 2.4/5.8G	WIFI 2.4/5.8G
Audio	1*Line-out / 1*Mic-in	1*Line-out / 1*Mic-in	1*Line-out / 1*Mic-in
Serial Ports	2* RS232/RS485	2* RS232/RS485 4* RS232	4* RS232/RS485 4* RS232
USB	4*USB3.0	6*USB 3.0 2*USB 2.0	4*USB 3.0 6*USB 2.0
Power Supply	12V/5A	12V/5A	12V/5A
Power Consumption	Controlled at 15W Full load ≤ 100W	Controlled at 15W Full load ≤ 100W	Controlled at 15W Full load ≤ 100W
Size	159.6*127.0*53.2(mm)	236*183*72(mm)	236*228*72(mm)
Operating Temperature	-20~60℃	-20~60℃	-20~60℃
Operating Humidity	5~95%(No condensation)	5~95%(No condensation)	5~95%(No condensation)
ESD	Contact 6KV, Air 8KV	Contact 6KV, Air 8KV	Contact 6KV, Air 8KV

* CPU,memory and storage can be customized

X86 Industrial Panel PCs P series






Feature/Model	USR-P3121	USR-P3156	USR-P5156	USR-P5215
CPU	N95	N95	N95	N95
Memory(SRAM)	8GB(16GB)	8GB(16GB)	8GB(16GB)	8GB(16GB)
Storage(ROM)	128GB Wide Temp SSD	128GB Wide Temp SSD	128GB Wide Temp SSD	128GB Wide Temp SSD
Hard Drive Expansion	1*MiniPcie	1*MiniPcie	1*MiniPcie 1*MSATA	1*MiniPcie 1*MSATA
Operating System	WIN10(WIN11/Ubuntu)	WIN10(WIN11/Ubuntu)	WIN10(WIN11/Ubuntu)	WIN10(WIN11/Ubuntu)
Screen Size	12.1"	15.6"	15.6"	21.5"
Resolution	1024*768	1920*1080	1920*1080	1920*1080
Touch Method	10-point capacitive touch	10-point capacitive touch	10-point capacitive touch	10-point capacitive touch
Display Interface	--	--	1*HDMI(4096*2160)	1*HDMI(4096*2160)
Ethernet Ports	2*1000M(RJ45)	2*1000M(RJ45)	2*1000M(RJ45)	2*1000M(RJ45)
WIFI	WIFI 2.4/5.8G	WIFI 2.4/5.8G	WIFI 2.4/5.8G	WIFI 2.4/5.8G
Audio	1*Line-out / 1*Mic-in	1*Line-out / 1*Mic-in	1*Line-out / 1*Mic-in	1*Line-out / 1*Mic-in
Serial Ports	2* RS232	2* RS232	2* RS232/RS485 4* RS232	2* RS232/RS485 4* RS232
USB	4*USB3.0	4*USB3.0	4*USB3.0	4*USB3.0
Power Supply	12V/5A	12V/5A	9-36V/5A	9-36V/5A
Power Consumption	Controlled at 15W Full load ≤ 100W	Controlled at 15W Full load ≤ 100W	Controlled at 15W Full load ≤ 100W	Controlled at 15W Full load ≤ 100W
Overall Size	299*239*57(mm)	390*248*57(mm)	390*248*57(mm)	531*327*67(mm)
Cutout Size	291*231(mm)	382*240(mm)	382*240(mm)	524*320(mm)
Mounting Method	VESA Mount / Bracket Mount / Embedded Mounting	VESA Mount / Bracket Mount / Embedded Mounting	VESA Mount / Bracket Mount / Embedded Mounting	VESA Mount / Bracket Mount / Embedded Mounting
Operating Temperature	-20~60℃	-20~60℃	-20~60℃	-20~60℃
Operating Humidity	5~95%(No condensation)	5~95%(No condensation)	5~95%(No condensation)	5~95%(No condensation)
ESD	Contact 6KV, Air 8KV	Contact 6KV, Air 8KV	Contact 6KV, Air 8KV	Contact 6KV, Air 8KV

* CPU,memory and storage can be customized

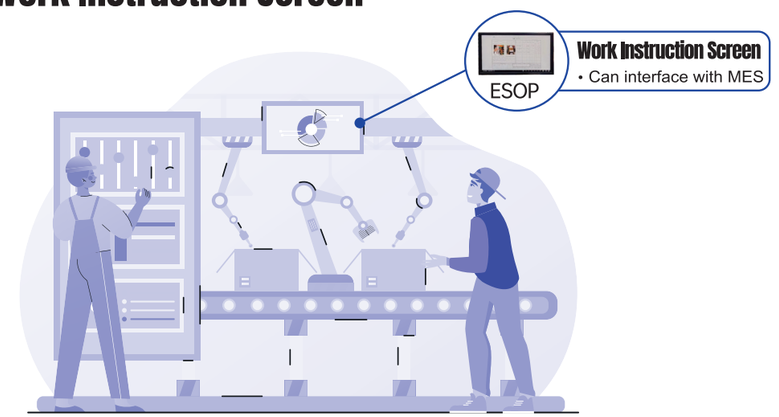
ARM Industrial Panel Pc SH Series






Feature/Model	*USR-SH500	USR-SH600	*USR-SH800	*USR-SH900
CPU	RK3562	RK3568	RK3576	RK3588
GPU	G52 2EE	G52 2EE	Mali-G52 MC3	Mali-G610
NPU	1Tops	1Tops	6Tops	6Tops(Extendable)
Memory(SRAM)	4GB	4GB	4GB	8GB
Storage(ROM)	32GB	32GB	64GB	128GB
Operating System	Ubuntu20.04	Ubuntu20.04	Ubuntu22.04	Ubuntu22.04
Screen	10.1"Capacitive Touch Screen	10.1"Capacitive Touch Screen	10.1"Capacitive Touch Screen	10.1"Capacitive Touch Screen
Resolution	800*1280	800*1280	800*1280	800*1280
Panel Protection	IP65	IP65	IP65	IP65
Ethernet Ports	1*100M	2*100M	2*1000M	2*1000M
Serial Ports	2*RS485 2*RS232	2*RS485 2*RS232	2*RS485 2*RS232	2*RS485 4*RS232
USB	2*USB3.0 2*USB2.0	2*USB3.0	1*USB3.0 1*USB2.0	2*USB3.0 2*USB2.0
HDMI	--	HDMI2.0	HDMI2.0	HDMI2.1
Audio	1*Mic Output	1*Mic Output	1*Mic Output	1*Mic Output
Cellular network	Optional	Optional	Optional	Optional
WiFi	WIFI 2.4G	WIFI 2.4G	WIFI 2.4G	WIFI 2.4G
RTC	√	√	√	√
Power Supply	12V/2A	12V/2A	12V/2A	12V/2A
Data Acquisition Points	2000	6000	6000	6000
Protocol	Modbus JSON OPC UA IEC61850 IEC104 BACNET DNP3.0	Modbus JSON OPC UA IEC61850 IEC104 BACNET DNP3.0	Modbus JSON OPC UA IEC61850 IEC104 BACNET DNP3.0	Modbus JSON OPC UA IEC61850 IEC104 BACNET DNP3.0
Offline Cache	Support(2G)	Support(2G)	Support(2G)	Support(2G)
Routing/VPN	√	√	√	√
Built-in Configuration Software	√	√	√	√
Node-Red	√	√	√	√
Overall Size	--	258*173*39.9(mm)	--	--
Cutout Size	--	135.36*216.58(mm)	--	--
Operating Temperature	-25~75℃	-25~75℃	-25~75℃	-25~75℃
Operating Humidity	5~95% (Non-condensing)	5~95% (Non-condensing)	5~95% (Non-condensing)	5~95% (Non-condensing)

ESOP Work Instruction Screen



ARM Industrial Single Board Computer EV series

Standard SBC






Standard SBC				
KeyFeatures/ Model	USR-EV808			
Operation System Default	Ubuntu20.04	Ubuntu20.04	Ubuntu22.04	Ubuntu22.04
Operation System Optional	Android13/Debian11	Android11/Debian11	Android14/Debian11	Android12/Android15.0/Debian11
CPU	RK3562	RK3568	RK3576	RK3588S
RAM	4GB(8G Optional)	4GB(8G Optional)	4GB(8G 16G Optional)	8GB(4G 16G Optional)
Storage	32G(64G 128G Optional)	32G(64G 128G Optional)	64G(32G 128G Optional)	128G(64G 256G Optional)
Ethernet Port	100M*1	100M*2	1000M*2	1000M*2
WiFi/BT	WIFI 2.4G	WIFI6 2.4G BT5.2	WIFI6 2.4G BT5.2	WIFI 2.4G BT5.2
4G/5G	Mini PCIE Interface	Mini PCIE Interface	Mini PCIE Interface	Mini PCIE Interface
USB	USB3.0 *2 USB2.0 *2	USB3.0 *2	USB3.0 *1 USB2.0 *1	USB3.0 *2 USB2.0 *2
Serial Port	RS232*2 RS485*2	RS232*2 RS485*2	RS232*2 RS485*2	RS232*4 RS485*2
CAN	NONE	1*CAN	1*CAN	1*CAN
TF Card	NONE	NONE	NONE	NONE
RTC	Support	Support	Support	Support
LVDS	1*Dual Channel LVDS	1*Dual Channel LVDS	1*Dual Channel LVDS	1*Dual Channel LVDS
HDMI	NONE	1*HDMI2.0	1*HDMI2.0	1*HDMI2.1
MiPi	1*MiPi	1*MiPi	1*MiPi	1*MiPi
eDP	1*eDP1.3	1*eDP1.3	1*eDP1.3	1*eDP1.3
Audio	1*Speaker Output 2*Microphone Input	1*Speaker Output 2*Microphone Input	1*Speaker Output 1*Microphone Input	1*Speaker Output 2*Microphone Input
Operating Temperature	-10-70℃	-10-70℃	-10-70℃	-10-70℃
Operating Humidity	10%-80%	10%-80%	10%-80%	10%-80%
Dimension	155*80*20	155*80*21.5	155*80*21.5	160*105*20
Power Supply	DC 12V/2A	DC 12V/2A	DC 12V/2A	DC 12V/5A

Compact SBC






Compact SBC				
Key Features /Model	USR-EV208			
Operation System Default	Ubuntu20.04	Ubuntu20.04	Ubuntu22.04	Ubuntu22.04
Operation System Optional	Android13/Debian11	Android11/Debian11	Android14/Debian11	Android12/Debian11
CPU	RK3562	RK3568	RK3576	RK3588S
RAM	4GB(8G Optional)	4GB(8G Optional)	4GB(8G 16G Optional)	4GB(8G 16G Optional)
Storage	64G(32G 128G Optional)	64G(32G 128G Optional)	64G(32G 128G Optional)	64G(32G 128G Optional)
Ethernet Port	100M*1	100M*1	1000M*1	1000M*1
WiFi/BT	WIFI 2.4G	WIFI 2.4G	WIFI6 2.4G BT5.2	WIFI 2.4G BT5.2
4G/5G	NONE	NONE	NONE	NONE
USB	USB2.0 *2	USB3.0 *1 USB2.0 *1	USB2.0 *2	USB2.0 *2
Serial Port	TTL*2 / RS232*2	TTL*2 / RS232*2 / RS485*1	TTL*2 / RS232*2 / RS485*1	TTL*1 / RS232*4 / RS485*1
TF Card	Support	NONE	Support	Support
RTC	Support	Support	Support	Support
LVDS	1*Dual Channel LVDS	1*Dual Channel LVDS	1*Dual Channel LVDS	1*Dual Channel LVDS
HDMI	NONE	1*HDMI2.0	1*HDMI2.0	1*HDMI2.1
MiPi	1*MiPi	1*MiPi	1*MiPi	1*MiPi
eDP	NONE	1*eDP1.3	1*eDP1.3	1*eDP1.3
Audio	1*Speaker Output 2*Microphone Input	1*Speaker Output	1*Speaker Output 1*Microphone Input	1*Speaker Output 1*Microphone Input
Operating Temperature	-10-70℃	-10-70℃	-10-70℃	-10-70℃
Operating Humidity	10%-80%	10%-80%	10%-80%	10%-80%
Dimension	100mm*70mm*11mm			
Power Supply	DC 12V/2A			

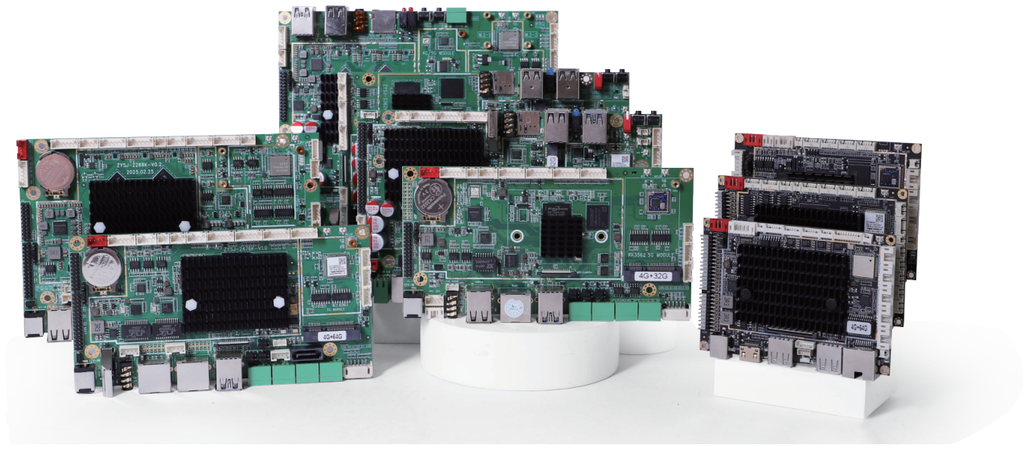
ARM Industrial Single Board Computer EV series

Industrial Single Board Computer





KeyFeatures/ Model	USR-EV908		
Operation System	Ubuntu20.04	Ubuntu22.04	Ubuntu22.04
Operation System	Android13/Debian11	Android14/Debian11	Android12/Android15.0/Debian11
CPU	RK3562	RK3576	RK3588S
RAM	4GB(8G Optional)	4GB(8G 16G Optional)	8GB(4G 16G Optional)
Storage	32G(64G 128G Optional)	32G(32G 128G Optional)	128G(64G 256G Optional)
Ethernet Port	1000M*1 100M*1	1000M*2	1000M*3
WiFi/BT	WIFI 2.4G	WIFI6 2.4G BT5.2	WIFI 2.4G BT5.2
4G/5G	Mini PCIE Interface	Mini PCIE Interface	Mini PCIE Interface
USB	USB2.0 *4	USB3.0 *1 USB2.0 *6	USB3.0 *2 USB2.0 *4
Serial Port	RS485*8 (4000V Quarantine)	RS485*8 (4000V Quarantine)	RS485*2 RS232*4 (4000V Quarantine)
CAN	2*CAN (4000V Quarantine)	2*CAN (4000V Quarantine)	2*CAN (4000V Quarantine)
IO	4DO+6DI	6DO+6DI	2DO+2DI (4000V Quarantine)
TF Card	NONE	NONE	Support
RTC	Support	Support	Support
LVDS	NONE	1*Dual Channels LVDS	NONE
HDMI	NONE	1*HDMI2.0	1*HDMI2.1
MiPi	1*MiPi	1*MiPi	1*MiPi
eDP	NONE	1*eDP1.3	1*eDP1.3
Audio	1*Speaker Output 1*Microphone Input	1*Speaker Output 1*Microphone Input	1*Speaker Output 2*Microphone Input
Operating Temperature	-40~85℃	-40~85℃	-40~85℃
Operating Humidity	10%~80%	10%~80%	10%~80%
Dimension	170*105*20	170*105*22	170*140*20
EMC	Contact Discharge±4KV Air Discharge±8KV	Contact Discharge±4KV Air Discharge±8KV	Contact Discharge±4KV Air Discharge±8KV
Power Supply	DC DC9~36V/5A	DC DC9~36V/5A	DC DC9~36V/5A



Traditional HMI H5/H3 Series



KeyFeatures/Model	USR-H5043E	USR-H5070E	USR-H5100E	USR-H3043C-485	USR-H3070C-485	USR-H3100C-485
LCD Screen	4.3"TFT	7"TFT	10.1"TFT	4.3"TFT	7"TFT	10.1"TFT
Resolution	480x272	800x480	1024x600	480x272	800x480	1024x600
Display Colors	16.7 million colors	16.7 million colors	16.7 million colors	262K colors	262K colors	262K colors
Display Brightness	300 cd/m2	400cd/m2	250 cd/m2	300 cd/m2	250 cd/m2	250 cd/m2
Backlight Type	LED(Backlight dimming)	LED(Backlight dimming)	LED(Backlight dimming)	LED(Backlight dimming)	LED(Backlight dimming)	LED(Backlight dimming)
LCD Lifetime	20,000 hours	20,000 hours	20,000 hours	20,000 hours	20,000 hours	20,000 hours
Touch Type	Resistive touch screen	Resistive touch screen	Resistive touch screen	Resistive touch screen	Resistive touch screen	Resistive touch screen
Memory	64MB	64MB	64MB	8MB	8MB	32MB
Storage	128MB	128MB	128MB	16MB	16MB	128MB
Ethernet	√	√	√	NONE	NONE	NONE
USB Port	1*USB2.0 OTG 1*USB2.0 HOST	1*USB2.0 OTG 1*USB2.0 HOST	1*USB2.0 OTG 1*USB2.0 HOST	1*USB2.0	1*USB2.0	1*USB2.0
Communication Port	1*RS232/RS485/RS422	1*RS232/RS485/RS422 1*RS485	1*RS232/RS485/RS422 1*RS485	1*RS485	1*RS485	1*RS485
Buzzer	Support	Support	Support	Support	Support	Support
Program Download Method	USB / SD Card / USB Flash Drive	USB / SD Card / USB Flash Drive	USB / SD Card / USB Flash Drive	USB / SD Card	USB / SD Card	USB / SD Card / USB Flash Drive
PC Programming Software	USR HMI ToolsPro	USR HMI ToolsPro	USR HMI ToolsPro	USR HMI Tools	USR HMI Tools	USR HMI Tools
Rated Power	2W	3.5W	3.5W	< 2W	3.6W	3.5W
Power Supply	DC 19-30V	DC 19-30V	DC 19-30V	DC 10-30V	DC 10-30V	DC 10-30V
Housing Material	ABS+PC	ABS+PC	ABS+PC	ABS+PC	ABS+PC	ABS+PC
Outline Dimensions	140×98×29(mm)	203×149×34(mm)	267×180×34(mm)	138×86×26(mm)	203×149×30(mm)	267×180×34(mm)
Cut-out Dimensions	132×80(mm)	192×138(mm)	257×170(mm)	132×80(mm)	192×138(mm)	257×170(mm)
Weight	207g	492g	775.5g	168g	400g	745g
Operating Temperature	-10℃~50℃	-10℃~50℃	-10℃~50℃	-10℃~50℃	-10℃~50℃	-10℃~50℃
Operating Humidity	10~90%RH(No condensation)	10~90%RH(No condensation)	10~90%RH(No condensation)	10~90%RH(No condensation)	10~90%RH(No condensation)	10~90%RH(No condensation)
Shock Resistance	10~25Hz(2G for 30 minutes in X,Y,Z direction)	10~25Hz(2G for 30 minutes in X,Y,Z direction)	10~25Hz(2G for 30 minutes in X,Y,Z direction)	10~25Hz(2G for 30 minutes in X,Y,Z direction)	10~25Hz(2G for 30 minutes in X,Y,Z direction)	10~25Hz(2G for 30 minutes in X,Y,Z direction)
Cooling Method	Natural air cooling	Natural air cooling	Natural air cooling	Natural air cooling	Natural air cooling	Natural air cooling
Front Panel Protection Grade	IP65	IP65	IP65	IP65	IP65	IP65

Smart HMI H7 Series



Smart HMI = Traditional HMI + Edge Gateway + Cloud Platform

·Local configuration, synchronized with cloud configuration.

·Built-in WukongEdge for data collection, control and cloud access.

·Intranet penetration, remote upload and download for HMI and PLC.

Data Acquisition Gateway M Series





Function / Model	USR-M100	USR-M100S	USR-M300
CPU	STM32H750	HPM6450	X2000E
Memory (SRAM)	1MB	2MB	256MB
Storage (ROM)	2MB	16MB	8GB
Operating System	RT-Thread	Open Harmony	Linux MIPS
Ethernet Port	1*100M	1*100M	2*100M
Serial Port	1*RS485/RS232 / 1*RS485	1*RS485/RS232 / 1*RS485	1*RS485/RS232 / 1*RS485
Cellular	CAT1/4G Dual SIM Single Standby	CAT1/4G Dual SIM Single Standby	CAT1/4G Dual SIM Single Standby
WiFi	--	--	WiFi 2.4
USB	--	--	--
IO	2DI+2AI+2DO Expandable	2DI+2AI+2DO Expandable	2DI+2AI+2DO Expandable
Active Reporting	5 Groups(Json)	Group Reporting (Json)	Group Reporting (Json)
Offline Transmission Resumption	--	Support (SD)	Support (2G)
Acquisition Points	300	1000	2000
Point Import /Export	√	√	√
Acquisition Protocol	Modbus DL/T 645 2007	Modbus DL/T 645 2007	Modbus / IEC61850 / IEC104 / BACNET IP/ DL/T645 2007 / PLC Protocol
Protocol Conversion	Modbus Json	Modbus Json	Modbus / JSON /OPC UA / IEC61850 /IEC104/ BACNET / SL651
Linkage Control	10	30	50
Communication Protocol	TCP/UDP/HTTP/MQTT	TCP/MQTT	TCP/HTTP/MQTT
Communication Link	Single Channel	2*TCP+2*MQTT	Dual Channel
Encryption Method	SSL	SSL	SSL
Router	√	√	√
Transparent Transmission	√	--	--
VPN	--	--	√
Node-Red	--	--	√
Cross-region Networking	--	--	√
Positioning	Optional	Optional	Optional
Dimensions	79.6*58*110(mm)	79.6*58*110(mm)	79.6*58*110(mm)
Power Supply	9-36V/1A	9-36V/1A	9-36V/2A
Operating Temperature	-25~75℃	-25~75℃	-25~75℃
Operating Humidity	5~95% (Non-condensing)	5~95% (Non-condensing)	5~95% (Non-condensing)







Feature/Model	USR-IO4040	USR-IO0440	USR-IO0080	USR-IO8000	USR-IO0404
Power Supply	DC 12-24V	DC 12-24V	DC 12-24V	DC 12-24V	DC 12-24V
DI	4	0	0	8	0
AI	0	4	0	0	4
DO	4	4	8	0	0
AO	0	0	0	0	4
AI Type	/	Current	/	/	Current
AI Specification	/	4~20mA	/	/	4~20mA
DI Specification	9~36V	/	/	9~36V	/
DO Type	Relay	Relay	Relay	/	/
DO Specification	3A	3A	3A	/	/
AO Type	/	/	/	/	Voltage / Current
AO Specification	/	/	/	/	4~20mA
Communication Interface	RS485	RS485	RS485	RS485	RS485
Dimensions	79.6*28*110(mm)	79.6*28*110(mm)	79.6*28*110(mm)	79.6*28*110(mm)	79.6*28*110(mm)