

AI-BOX

Edge Computing Server



Powerful
computing power



High-definition
output



Multi-channel
Ethernet



Security
encryption



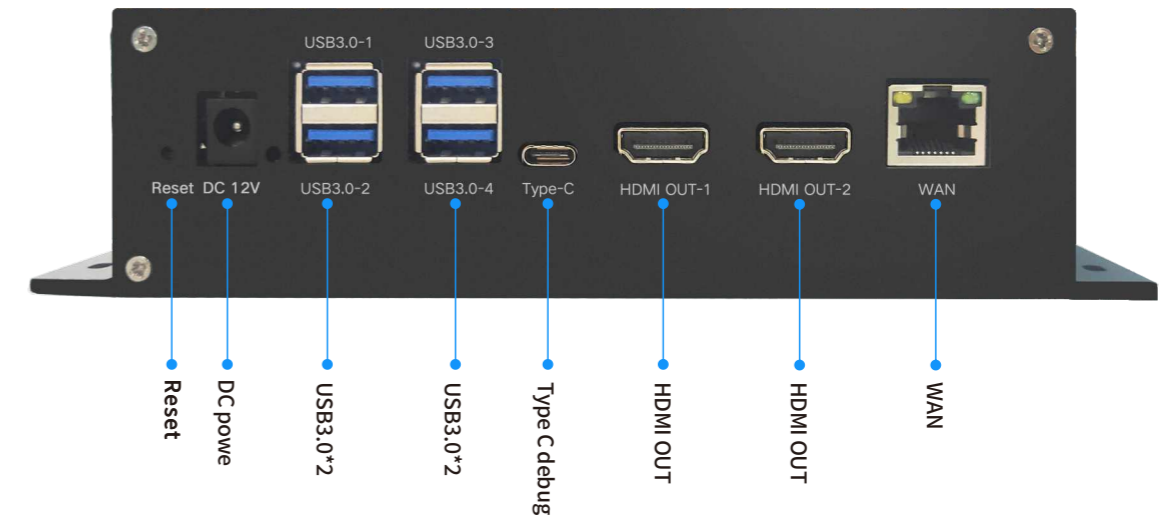
7*24 hours of s
table operation



AI edge computing box Model:EC01

Product features

- ★ RK3399*1+RK1808*4, 12.0T computer (Can also be expanded to multiple compute sticks) ;
Supports 8-channel video stream access;
- ★ Supports network model conversion of TensorFlow, Caffe, ONNX, DaRKnet and other frameworks;
- ★ The core board has rich reserved interfaces and supports a variety of peripheral expansions.;
- ★ It can be widely used in edge computing and artificial intelligence product terminals such as industrial Internet, smart cities, smart security, smart transportation, smart medical care, and unmanned retail.



Product Parameters

Items	Product parameters
CPU	Rk3399 A72*2+ A53*4 main frequency 1.8GHz & Mail T864
GPU	Mali-T864 GPU
NPU	4*RK1808
OS	Linux
Memory	2G/4G DDR+32/64 eMMC
Computing Power	Standard 12T(3.0T-24.0T optional)
Network architecture	caffe、TensorFlow 1.3.2、PyTorch、ONNX、DaRKnet
algorithm model	INT8/INT16/FP16
Video encoding and decoding	H265,H264,WMV,MPEG-1/2/4,VP8,VP9
Video input	8channels 1080P
Video output	HDMI
External I/O	USB3.0*4
	HDMI OUT*2
	Type-C*1
	RESET button*1
	Gigabit network port*1
	MICRO USB *4(Optional)
	USB2.0*4(Optional)
HDMI IN*1 (Optional)	

AI edge computing box Model:EC02

Product features

- * RK3399*1+RK1808*4, 12.0T computing power (can also be expanded to multiple computing sticks);
- * Supports 8-channel video stream access;
- * Supports network model conversion of TensorFlow, Caffe, ONNX, DaRKnet and other frameworks;
- * The core board has rich reserved interfaces and supports a variety of peripheral expansions.;
- * It can be widely used in edge computing and artificial intelligence product terminals such as industrial Internet, smart cities, smart security, smart transportation, smart medical care, and unmanned retail.



AI camera



Robot navigation



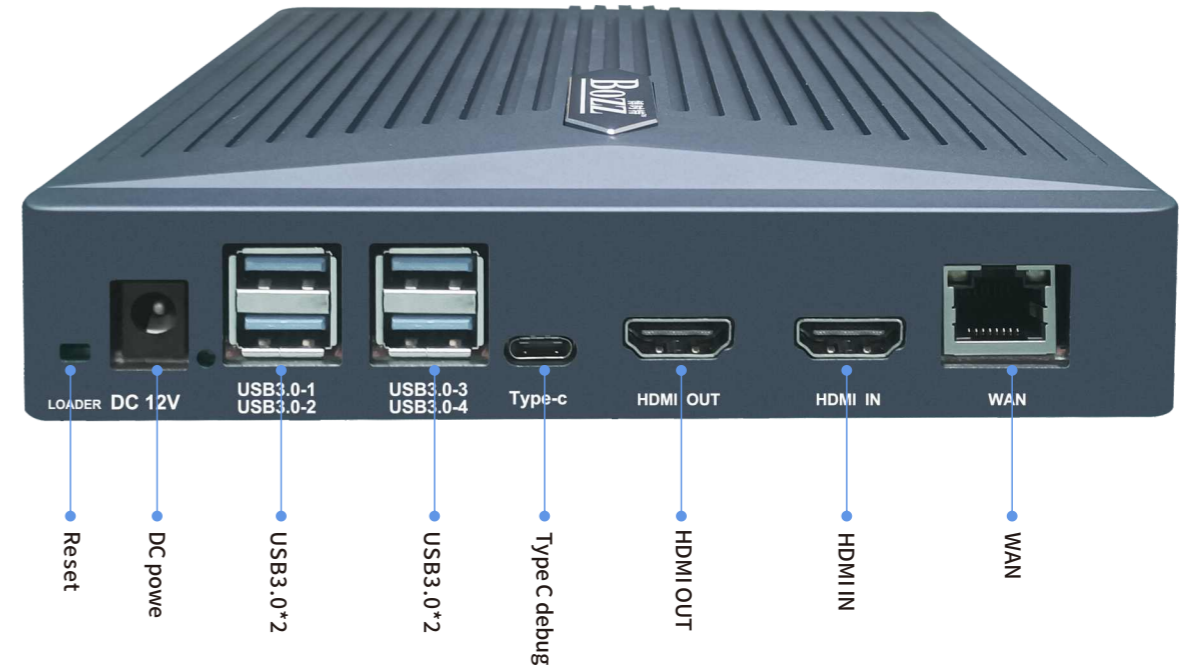
Intelligent driving



Industrial monitoring



Smart medical



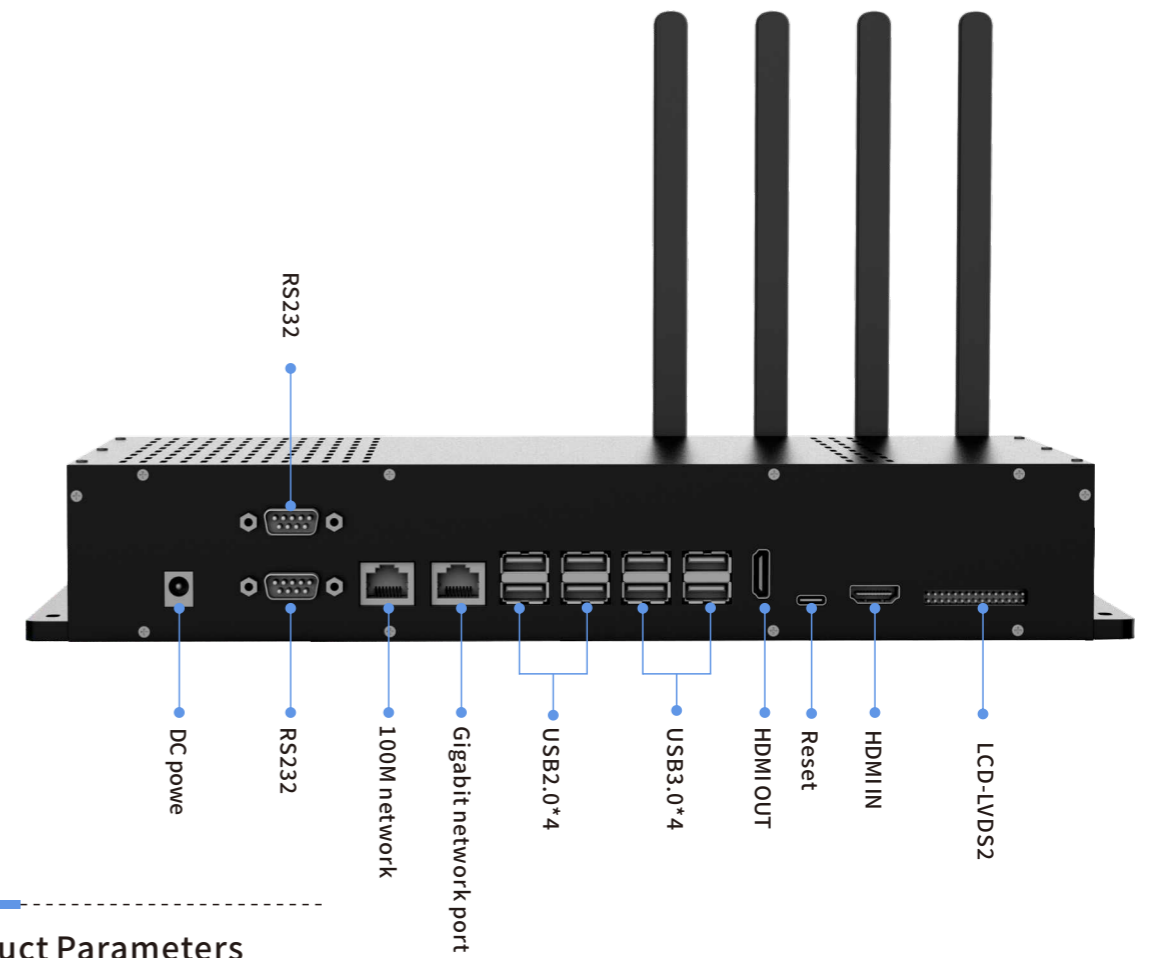
Product Parameters

Items	Product parameters
C P U	Rk3399 A72*2+ A53*4 Main frequency 1.8GHz & Mali T864
G P U	Mali-T864 GPU
N P U	4*RK1808
OS	Linux
Memory	4GDDR+1G*4 DDR+16/32/64 eMMC
Computing Power	standard 12T(3.0T-24.0T optional)
Network architecture	caffe, TensorFlow 1.3.2, PyTorch, ONNX, DaRKnet
algorithm model	INT8/INT16/FP16
Video encoding and decoding	H265,H264,WMV,MPEG-1/2/4,VP8,VP9
Video input	8 channels 1080P
Video output	HDMI
External I/O	USB3.0*4
	Type-C*1
	HDMI OUT*1
	HDMI IN*1
	Gigabit network port*1
	DC power supply

AI edge computing box Model:EC03

Product features

- ★ Industrial grade selection, the computing core adopts RK3399+4*RK1808;
- ★ Pre-installed LINUX Ubuntu system with stable performance; up to 12TOPS computing power (up to 24TOPS);
- ★ Integrate computing, intelligent gateway, NVR, and industrial control host functions into one;
- ★ Industrial-grade overcurrent, overvoltage, overtemperature, ESD, surge protection circuit design, ultra-long MTBF;
- ★ All-metal body, professional heat conduction scheme design, stable and reliable passive cooling mode;
- ★ Multiple network link modes: Ethernet, 4G full network, 2.4G+5G WIFI, BT4.2 free link;
- ★ Precise GPS positioning management;
- ★ Ultra-low temperature preheating start, built-in heating module.



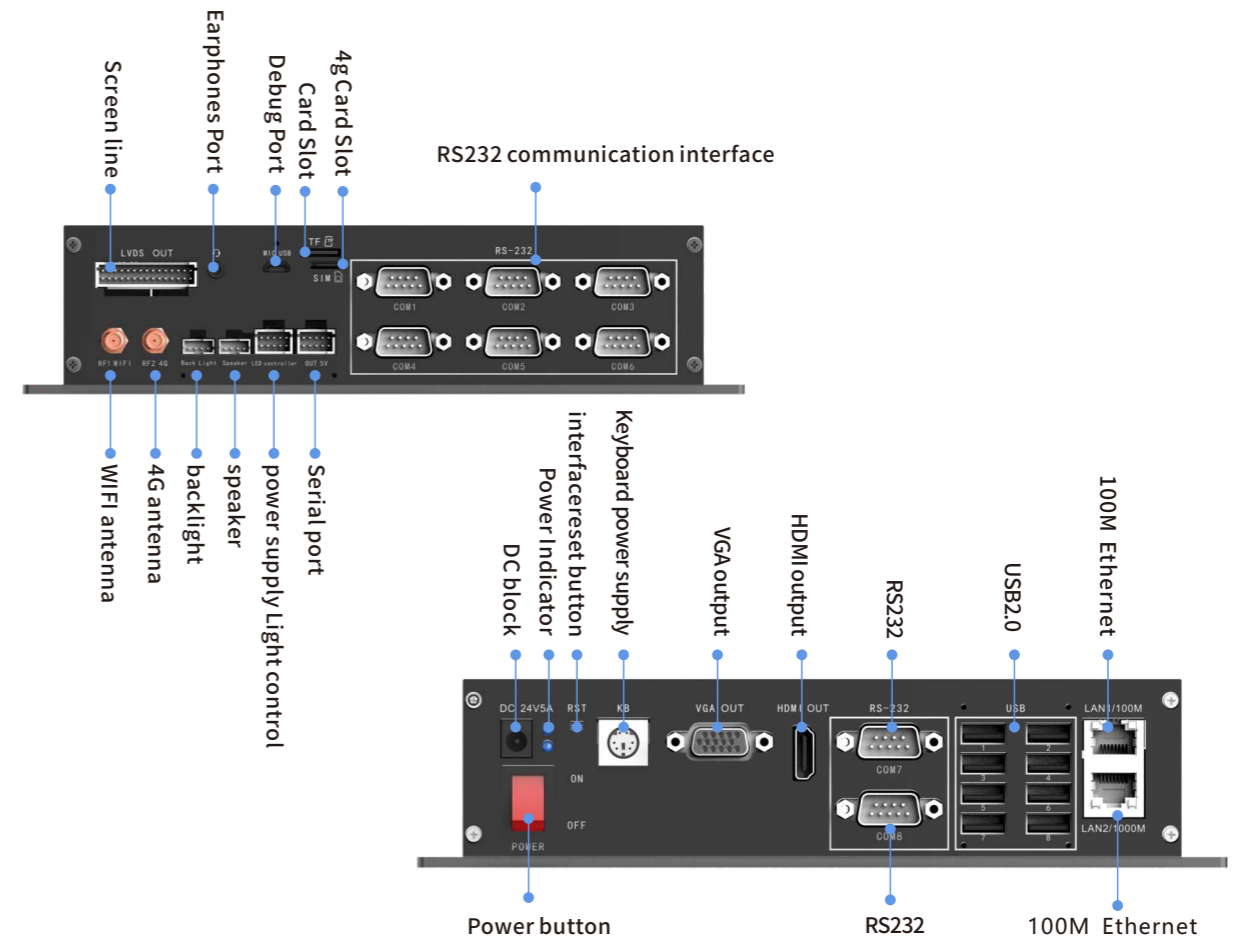
Product Parameters

Items	Product parameters		
C P U	Rk3399 A72*2+ A53*4 Main frequency 1.8GHz & Mali T864		
G P U	Mali-T864 GPU		
N P U	4*RK1808		
OS	Linux		
Memory	4GDDR+1G*4 DDR+16/32/64 eMMC		
Computing Power	standard 12T(3.0T-24.0T optional)		
Network architecture	caffe、TensorFlow 1.3.2、PyTorch、ONNX、DaRKnet		
algorithm model	INT8/INT16/FP16		
Video input	H265,H264,WMV,MPEG-1/2/4,VP8,VP9		
Video output	8 channel 1080P		
External I/O	DC power	Gigabit network port*1	100M network port*1
	USB3.0*4	USB2.0*4	Type-C*1
	Micro USB*1	HDMI OUT*1	HDMI IN*1
	RS232*2	RS485*3	GPIO*5
	LCD-LVDS*2	LCD-Backlight*2	Touch Panel*1
	Light sensor module interface*1	SIM card*1	T-Flash card*1
	Harddisk SATA*1	antenna*1	Speaker*1

Industrial Android host Model:EC04

Product features

- ★ Used for main control of automation equipment or self-service equipment in industrial automation, CNC machine tools, transportation, logistics, medical care, public services, new retail, etc;
- ★ Rk3399 six-core powerful movement is equipped with Android 10.0 and runs stably;
- ★ Aluminum alloy anodized shell, pressure-resistant, wear-resistant, and corrosion-resistant; fanless heat dissipation, noiseless design;
- ★ Rich peripheral interfaces;
- ★ Built-in security encryption chip;
- ★ Supports three connection methods: 100M and 1000M LAN network ports, wireless WIFI, and SIM card;
- ★ Support 4K high-definition output;
- ★ Equipped with watchdog function to ensure stable operation of the machine.



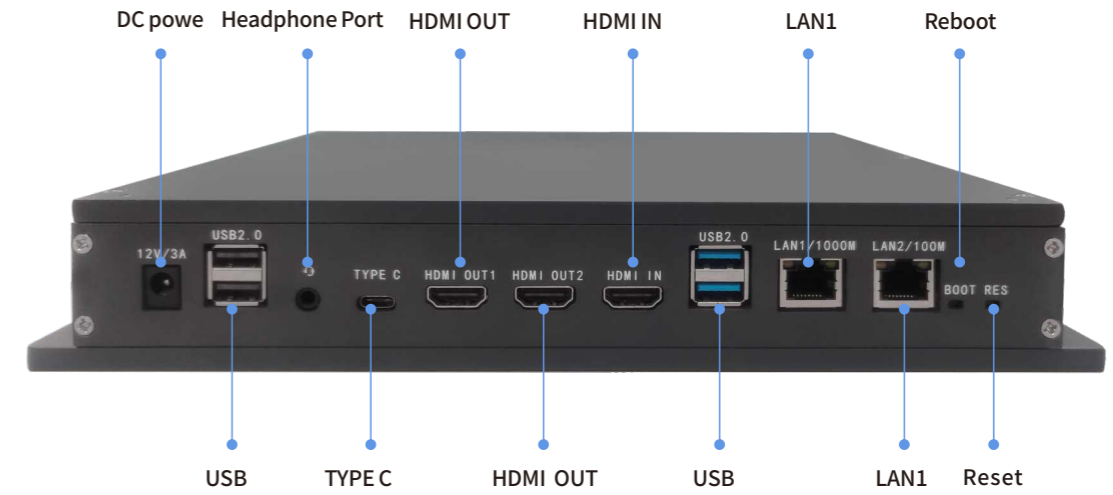
Product Parameters

Items	Product parameters		
C P U	Rk3399 A72*2+ A53*4 Main frequency 1.8GHz & Mail T864		
O S	Android 10.0 Bozz OS		
Memory	4G DDR+64G EMMC		
Screen adaptation	1080P/720P/480P		
Device power supply	DC 24V/5A		
WIFI	2.4G Support IEEE 802.11b/g/n		
Communication method	4G All Netcom		
Bluetooth	Support bluetooth 2.1/3.0/4.0/4.2		
External I/O	DC Power	RS232*8	USB TYPE-A *8
	100M network port*1	Gigabit network port*1	MIC USB*1
	Headphone port*1	TF card slot*1	Boat type power switch*1
	VGA output *1	4G card slot*1	Reset button*1
	5V power output *1	LVDS screen line output*1	Speaker interface*1
	Light control interface*1	Backlight interface*1	Wifi Antenna interface*1
	4G Antenna interface*1	HDMI Output*1	Keyboard interface*1

AI edge computing box Model:EC08

Product features

- ★ The RK3588 octa-core processor comes standard with 21T computing power;
- ★ It supports the access of up to 64 channels of 1080P video streams;
- ★ It supports INT4/INT8/INT16/FP16 algorithm models.
- ★ The core board has rich reserved interfaces and supports a variety of peripheral expansions.;
- ★ It can be widely used in edge computing and artificial intelligence product terminals such as industrial Internet, smart cities, smart security, smart transportation, smart medical care, and unmanned retail.



产品参数 PRODUCT PARAMETERS

Items	Product parameters
C P U	Rk3588 Quad-core ARM Cortex A76+ Quad-core ARM Cortex A55
G P U	Mali-G610
N P U	5*RK1808
OS	Linux
Memory	8G+1G*5 DDR+32G eMMC
Computing Power	standard 21T
Network architecture	TensorFlow/MXNet/PyTorch/Caffe
Algorithm model	INT4/INT8/INT16/FP16
Video encoding and decoding	H265,H264,WMV,MPEG-1/2/4,VP8,VP9/AV1
Video input	It supports the access of up to 64 channels of 1080P video streams.
Video output	HDMI
External I/O	DC Power
	USB2.0*4
	Type-C*1
	HDMI OUT*2
	HDMI IN*1
	1000M Ethernet *1
	100M Ethernet*1
	Headphone Port*1
Reset button*1	
Reboot system button*1	

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Smart R&D, smart manufacturing, smart IoT connects to the future

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