



Feiyun Smart Box RTSS-X102

PN: RTSS-X102

Hardware Version: V1.0



RTSS-X102 is a new Feiyun Smart Box™ based on NVIDIA Jetson AGX Xavier /AGX Xavier industry/AGX Orin module design, pre-installed with Ubuntu 18.04 operating system, using super strong and lightweight aluminum alloy material design, fanless structure conduction heat dissipation, with Excellent heat dissipation capacity, compact and lightweight overall size, excellent ergonomic structure, reserved flank structure for on-site installation, with 7x24 hours of on-site long MTBF stable operation, can be used in robots, unmanned delivery vehicles, smart gates, intelligent vending cabinets and other autonomous machines are ideal carriers for deploying AI computing power at the edge for deep learning.

Type	AGX Xavier	AGX Xavier industry	AGX Orin	
GPU	512-core NVIDIA Volta™ GPU with 64 Tensor Cores	512-core NVIDIA Volta™ GPU with 64 Tensor Cores	NVIDIA Ampere architecture with 1792 NVIDIA CUDA cores and 56 Tensor Cores	NVIDIA Ampere architecture with 2048 NVIDIA CUDA cores and 64 Tensor Cores
CPU	8-core NVIDIA Carmel Arm®v8.2 64-bit CPU 8MB L2 + 4MB L3	8-core NVIDIA Carmel Arm®v8.2 64-bit CPU 8MB L2 + 4MB L3	CPU:8-core Arm Cortex-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3	12-core Arm Cortex-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3
Memory	16GB LPDDR4	32GB LPDDR4	32GB LPDDR5	64GB LPDDR5
Storage	32GB	64GB	64GB	
Computing power	32 TOPS	30 TOPS	200TOPS	275 TOPS
Type Interface	RTSS-X102			
Pre-Installed System	Ubuntu 18.04			
HDMI	1 x HDMI TYPE A interface			
USB	2 x USB TYPE A 3.1 ports GEN1, support usb2.0, usb3.1 signals, provide 1A output current; 2 x USB TYPE A 2.0 ports, support usb2.0 signal, provide 1A output current; 1 x USB 2.0 Micro interface, used as a programming interface;			
Network Port	1 x Gigabit Ethernet (10/100/1000Mbps auto-sensing; half-duplex/full-duplex auto-sensing)			
SD interface	1 x Micro SD card slot			
SIM interface	1 x Micro SIM card slot			
PCIe interface	1 x Mini PCIe interface (built-in interface)			
M.2 interface	1 x M.2 KEY M interface (built-in interface)			
COM interface	1 x COM port (RS232); 1 x Debug COM port (RS232)			
Multi-function interface	1 x multi-function interface (support 1 x RS485, 2 x CAN, 6 GPIOs provide positive and negative poles)			
Button	1 x Reset button; 1 x Recovery button			
Power	+9V---+20V			
Dimensions	214.60mm×194.42mm×57.78mm			
Cooling method	Conductive heat dissipation			
Operating Temperature	-25~+65°C			
Weight	About 1780g			



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