



Feiyun Smart Box X509
PN: X509
Hardware Version: V2.0



X509 is a new Feiyun Smart Box™ based on NVIDIA Jetson™ Xavier NX/TX2 NX series modules. It is pre-installed with Ubuntu 18.04 operating system and equipped with 21TOPS (Xavier NX)/1.33TOPS (TX2 NX) floating point AI processing ability. It adopts super strong and light aluminum alloy material design, fan-type heat dissipation, excellent heat dissipation capacity, small and light overall size, reserved side wing structure that is convenient for on-site installation, and has the ability to operate 7x24 hours long MTBF stable on site. It can be applied to robots, Autonomous machines such as unmanned delivery vehicles, smart gates, and smart vending cabinets are ideal carriers for deploying AI computing power at the edge for deep learning.

Type	X509	X509 (EMMC)	X509-TX2 NX	X509-TX2 NX(EMMC)
Core	Xavier NX		TX2 NX	
CPU	NVIDIA Carmel ARM v8.2 (6-core) @ 1.4GHz (6MB L2 + 4MB L3)		Dual-core Denver 264-bit CPU and quad-core Arm® Cortex®-A57 MPCore processor	
GPU	384-core NVIDIA Volta™ GPU with 48 Tensor Cores		256-core NVIDIA Pascal™ GPU	
Memory	8GB LPDDR4		4GB LPDDR4	
Storage	Built-in 16GB			
Computing power	21 TFLOPS		1.33 TFLOPS	
Type Interface	X509	X509 (EMMC)	X509-TX2 NX	X509-TX2 NX(EMMC)
Pre-Installed System	Ubuntu 18.04			
USB	1 x USB3.0 interface , 1 x USB2.0, 1 x USB2.0 OTG			
HDMI	1 x Mini HDMI 2.0 interface			
Network Port	1 x GbE (10/100/1000 BASE-T)			
Camera interface	2 x MIPI interface			
PCIe interface	1 x Mini-PCIe interface			
SD/eMMC	1 x Micro SD	1 x 128GB eMMC	1 x Micro SD	1 x 128GB eMMC
UART/I2C	1 x UART/I2C interface			
Button	1 x Button interface			
Dimensions	115mm*70mm*61mm			
Cooling method	Air-cooled heat dissipation (built-in fan)			
Power Requirements	+12V			
Operating Temperature	-20~+65℃	-20~+60℃	-20~+65℃	-20~+60℃
Cooling method	Fan type heat dissipation (built-in fan)			
Working humidity	95% humidity without condensation			
Weight	About 365g			

