



Feiyun Smart Box<sup>TM</sup> Z507 is an intelligent computing device designed and developed by itself based on Huawei Atlas200 AI acceleration module. It can be applied to many edge computing such as robots, vending machines, smart gates, security transportation, distribution unmanned vehicles, drones, etc. Application scenarios, which can improve the AI computing power at the edge, run PyTorch, TensorFlow, MindSpore and other deep learning frameworks. The product has passed the China National Compulsory Product 3C certification and the European Union Certification Center CE certification, and won the third class of the Huawei Global Design Competition prize.

## Product standard

### AI Core

Atals200

AI computing power	22 TOPS INT8 16 TOPS INT8 8 TOPS INT8
RAM	LPDDR4X, 8 GB/4 GB, The total bandwidth is 51.2 GB/s
Codec capability	<ul style="list-style-type: none"> <li>• Support H.265 hardware decoding, 16 channels 1080P 30 FPS (2 channels 3840*2160 60 FPS)</li> <li>• Support H.264 hardware encoding, 1 channel 1080P 30 FPS</li> <li>• Support H.265 hardware encoding, 1 channel 1080P 30 FPS</li> <li>• JPEG decoding capability 1080P 256 FPS, encoding capability 1080P 64 FPS, maximum resolution: 8192*4320</li> <li>• PNG decoding capability 1080P 24 FPS, maximum resolution: 4096*2160</li> </ul>
Power Consumption	4 GB: 5.5 W / 8 GB: 8 W

### Interface

USB	2 x USB3.0 TYPE A ports (5Gbps, 1A maximum power supply current), 1 x Micro USB interface, supporting USB slave devices
Network	2 x Gigabit Ethernet (exchange extension)
SD	1 x SD card slot
Power requirement	+7V~+20V
Size	95.5mm*56.5mm*41mm
Operating temperature	-25~+55°C
Working humidity	95% humidity without condensation
Weight	295g

