



Edge AI Module - Lite

Lightweight design for rapid AI enablement of existing devices.

- ❑ **No Structural Changes Required:**
Quickly connects to primary devices like STBs and routers via USB without altering device structures.
- ❑ **Built-in 4 TOPS AI Computing Power:**
Supports localized edge computing, making it suitable for integration with existing equipment.
- ❑ **Supports INT8/INT16/FP16 Operations:**
Ideal for AI applications requiring high precision and stability, such as speech recognition and object detection.
- ❑ **BusyBox Linux System:**
Features a low-power design that enables efficient communication between devices and AI function expansion.
- ❑ **Flexible AI Model Configuration:**
Allows for adaptable AI model applications through software configuration.

Product Specification

Processor	4x Cortex-A55 @ 1.8GHz, Cortex-M @ 400MHz
Memory	4GB LPDDR4
Storage	8GB eMMC Flash
AI Accelerator	4TOPS(NPU)
Operating System	BusyBox Linux
Connector	USB 3.0 (Type-A)

Software Support

SDK	ACS SDK Tool
AI Application Generator	Detection Models, Classification Models
AI Framework	PyTorch, ONNX, TensorFlow, TensorFlow Lite, Keras, Caffe, MXNet, CNTK, CoreML
APP(Optional)	Customization Required (Extra Fees)

AI Model Support

Classification	ACSTiny, MobileNet, ResNet, InceptionNet, ...
Detection	YOLOv5s/m/l/x, SSD, MTCNN, ...
Skeleton	OpenPose, MultiPose, ...
ImageProcess	UNet, EDSR, SID, ...
Audio	RNN, LSTM, RNNoise, DeepSpeech, ...