

INDUSTRIAL PRODUCT DATASHEET

Sipeed Maix Amigo - All-in-One AIoT Development Platform Based on RV64GC (RISC-V)

All-in-one AIoT platform featuring RV64GC RISC-V CPU, 1 TOPS AI computing, dual cameras, audio and vision acceleration, and a 3.5-inch touch screen for diverse AI and vision applications.

SKU

102110463

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PRICE

\$48.80(Excl. VAT)



Overview



The Sipeed Maix Amigo is an all-in-one AIoT development platform based on a RV64GC RISC-V dual-core CPU, offering up to 1 TOPS computing power and dual camera support for heavy machine vision tasks. It integrates hardware acceleration units (FPU, KPU, FFT, APU), a 3.5-inch capacitive touch screen, and supports SPMOD and Grove modules, targeting applications such as image classification, object detection, face recognition, speech recognition, and game simulation.

Key Features

- All-in-One Platform with Rich Peripherals
- RV64GC RISC-V 64-bit Dual-Core CPU for Powerful AI Applications
- Computing Power up to 1TOPS with dual cameras for Heavy Machine Vision Applications
- Built-in FPU, KPU, FFT Hardware Acceleration Units
- Built-in APU for High-Quality Audio Processing
- 3.5-inch capacitive touch screen for better user interaction
- Supports SPMOD and Grove modules to expand your projects

Product Gallery



Specification

Specification	Description
CPU	RV64GC RISC-V Dual-Core 64-bit with FPU
CPU Frequency	400MHz(can be overclocked to 500MHz)
SRAM	Built-in 8MiB
Storage	16MiB Flash, support Micro-SD (up to 128GB)
Display	3.5" TFT Capacitive Touch Screen, 320*480
Camera	Front Camera: GC0328, 0.3M, 30fps Rear Camera: OV7740, 0.3M, 60fps
Speech recognition	Offline speech recognition, sound field imaging (6*1mic)
Network model	Support MobileNetV1/V2, TinyYOLOv2, face recognition, ASR, etc.
Deep learning framework	Support TensorFlow lite (recommended), ONNX, paddlepaddle model conversion
Peripherals	FPIOA, UART, GPIO, SPI, I2C, I2S, TIMER
Hardware acceleration unit	KPU (convolution operation accelerator) FPU (Floating Point Accelerator) APU (Audio Processor) FFT (Fourier transform accelerator)
Onboard resources	3.5 inch TFT screen Reset button *1 Function button *3 Front and rear camera *2 LED *3 Acceleration sensor *1
Onboard interface	USB Type-C interface Audio interface (support external speakers) TF card slot Grove standard interface SP-MOD interface (support SP-MOD interface module)
Dimensions	104.3*63.3*16.5mm
Power supply	USB-type C or internal lithium battery (520mAh)

Applications

- **Image Classification**
- **Object Detection**
- **Face Recognition**
- **Speech Recognition**
- **Game Simulation**

Compliance & Logistics



HSCODE	8517180050
USHSCODE	8517180050
UPC	
EUHSCODE	8543709099
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Sipeed-Maix-Amigo-p-4689.html>

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