

Sipeed Maix-Amigo Datasheet v1.0



Feature:

- Core Module: M1n module (K210 chip + power chip + 24P camera holder)
- Display: 3.5-inch capacitive touch screen
- Camera: front and rear 30W pixel dual camera (front camera GC0328, rear camera OV7740)
- On-board buttons: power switch button, reset button, three user buttons
- Onboard interface: GROVE*3, SPMOD*2, SPMOD-game controller interface*1

Document update record

Version	Date	Description	Revision
V1.0	2020/08/19	Original document	Sipeed@kts

Functional Overview

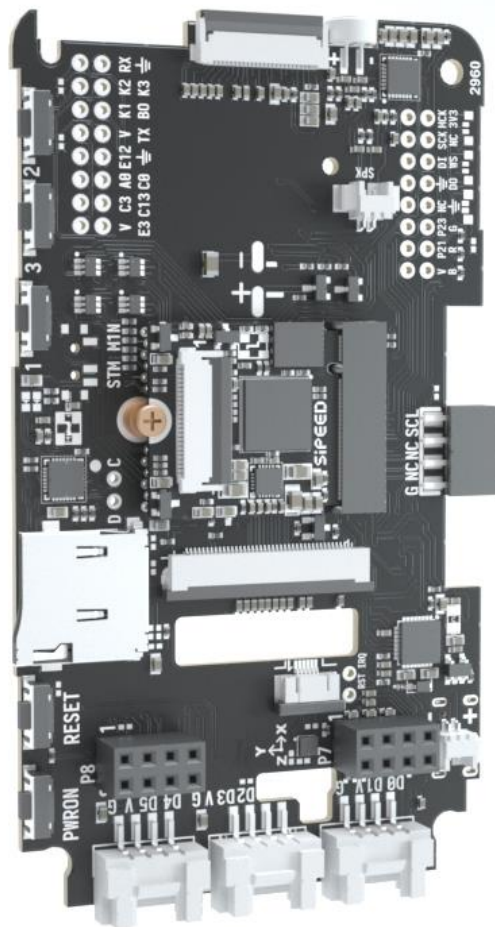
M1n module	chip: Kendryte K210, RAM: 6MB+2MB (KPU dedicated) FLASH:GD25LQ128 (128Mbit) Power chip: RY1303A three-way DC-DC chip provides 0.9V, 3.3V and 1.8V Camera: 24P 0.5mm FPC connector
Download method	Just plug in the USB cable to download and communicate via the onboard GD32 chip
Camera	Front and rear 30W pixel dual camera (front camera GC0328, rear camera OV7740)
Display	3.5-inch TFT capacitive touch screen
Onboard speaker and microphone	Integrated mono audio controller ES8374; 1W speaker
Three-axis gravity acceleration sensor	MSA301
Onboard expansion interface	GROVE*3, SPMOD*2, SPMOD-game controller interface*1
Power supply	USB Type-C interface & 520mAh lithium battery
IDE	Maixpy IDE
Buttons	Power button, reset button, three user buttons
UI	support MaixUI

Software overview

FreeRtos & Standard SDK	FreeRTOS and Standrad development kit
MaixPy Firmware	MaixPy open source firmware

Hardware overview

External power supply voltage	3.4-5.9V (Recommend 5.0V)
External power supply current	> 1.5W
Temperature rise	<30K
Operating temperature range	-30°C ~ 50°C



资源	
Official website	www.sipeed.com
Github	https://github.com/sipeed
BBS	http://bbs.sipeed.com
Wiki	maixpy.sipeed.com
Maixhub model training platform	https://maixhub.com/
SDK	dl.sipeed.com/MAIX/SDK
HDK	dl.sipeed.com/MAIX/HDK
E-mail(Technical support and business cooperation)	support@sipeed.com
telgram link	https://t.me/sipeed
AI QQ Group	878189804



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