



# Ai Thinker A1S Wi-Fi+BT Audio Development Kit

SKU 107990093

## DISCONTINUED

This item is no longer available.

### Description

Sorry but this SKU# 107990093 is unavailable from Seeed now.

You can buy it from the original manufacture or other distributors.

The unfilled orders will be shipped out on 9th Nov.

For the technical support, pls feel free to contact Seeed or ask the original manufacture for help.

Thanks.

### Technical Details

Dimensions	65mm x 58mm x 10mm
Weight	G.W 30g
Battery	Exclude
CPU	Xtensa® 32-bit LX6 dual-core processor,Summary computing power up to 600 DMIPS
ROM	520KB SRAM RTC 16 KB SRAM
IO port	10

Package	DIP-16
SPI Flash	Default 32Mbit
RAM	520KB SRAM+8M PSRAM
Support interface	URAT,SPI,I2C,PWM
Support TF card	Maximum support 64G
UART Baudrate	Default 115200 bps
Audio Output	Support 1 channel headphone output and 1 channel left and right speaker output
Audio Input	Support LINEIN and 2-way MIC input
Spectrum range	2412~2484MHz
WiFi 802.11	b/g/n/d/e/i/k/r (802.11n, speed up to 150Mbps) A-MPDU and A-MSDU aggregation, support 0.4μs guard interval 2.4~2.5GHz
Bluetooth	Bluetooth 4.2 BR/EDR and BLE standards, NZIF receiver with -98 dBm sensitivity, support AFH (Adaptive Frequency Hopping), support CVSD and SBC audio formats
Power Supply	5V 2A

*Part List*

Ai Thinker -A1S Wi-Fi+BT Audio Development Kit	1
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Recommended Working Environment					
Working Environment	Name	Min.	Typical	Max.	Unit
Operating Temperature	/	-40	20	85	°C
Power Supply Range	VDD	4.7	5	5.3	V

WiFi Emission				
Description	Min.	Typical	Max.	Unit
Input frequency	2412	-	2484	MHz
Input impedance	-	50	-	ohm
Input reflection	-	-	-10	dB
PA output power	15.5	16.5	21.5	dBm

Bluetooth Emission					
Parameter	Condition	Min.	Typical	Max.	Unit
RF transmit power	-	-	+7.5	+10	dBm
RF power control range	-	-	25	-	dB
Adjacent channel transmit power	F = F0 + 1MHz	-	-14.6	-	dBm
	F = F0 - 1 MHz	-	-12.7	-	dBm
	F = F0 + 2 MHz	-	-44.3	-	dBm
	F = F0 - 2 MHz	-	-38.7	-	dBm
	F = F0 + 3 MHz	-	-49.2	-	dBm
	F = F0 - 3 MHz	-	-44.7	-	dBm
	F = F0 + > 3 MHz	-	-50	-	dBm
	F = F0 - > 3 MHz	-	-50	-	dBm

ECCN/HTS

ECCN	5A002.a.1
HSCODE	8522909900