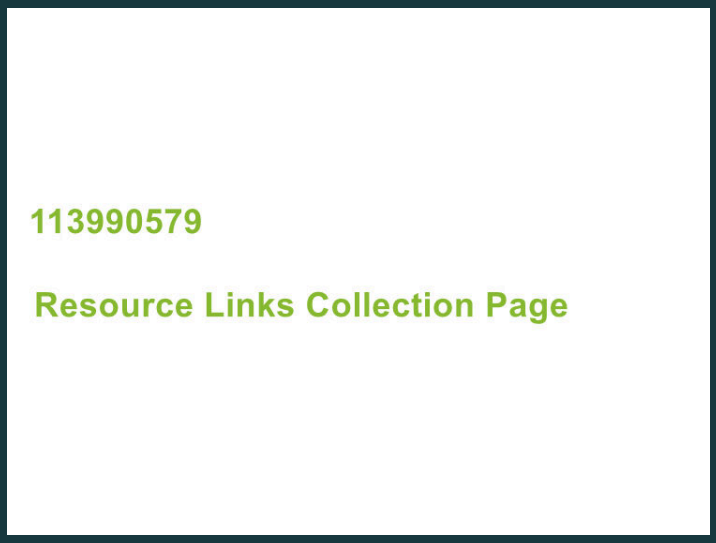
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INDUSTRIAL PRODUCT DATASHEET

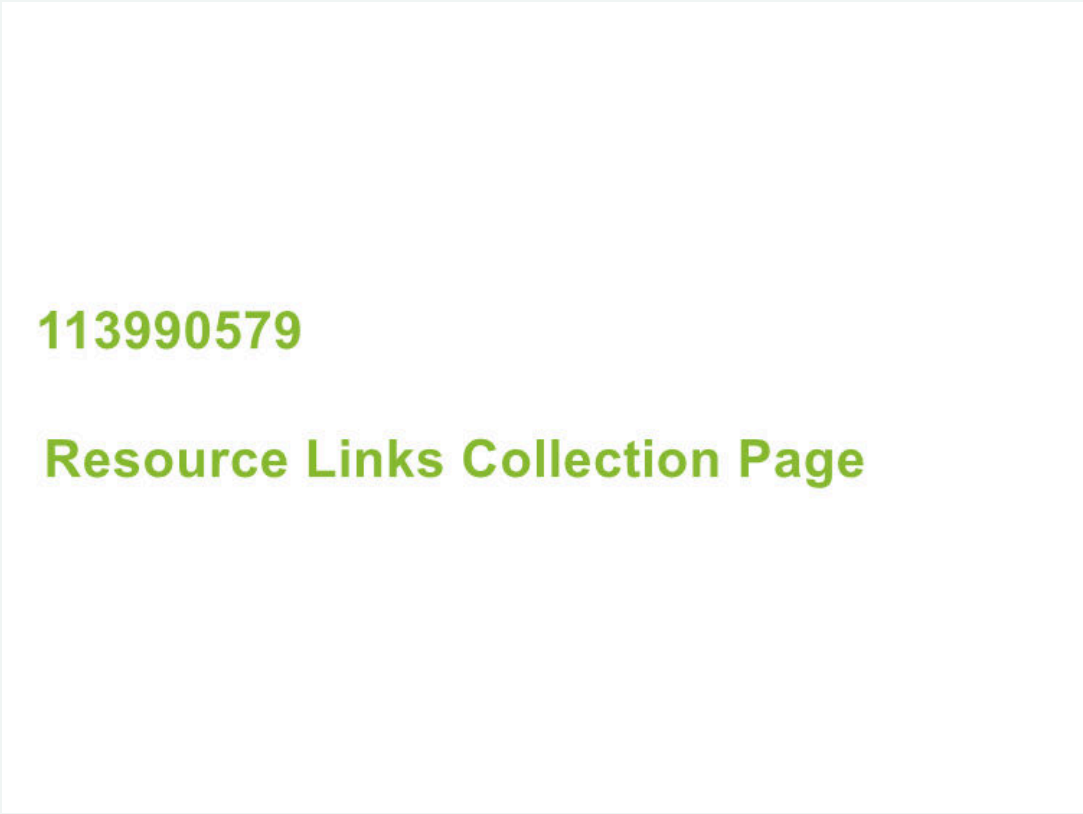
ESP32-A1S Wi-Fi SoC Audio Module (IPEX block output)

ESP32,ESP32-A1S,ESP8266,NodeMCU,Wi-Fi,Bluetooth,wireless chip,Audio Module,smallest Wi-Fi BT SoC,external 4MPSRAM, Module,Codec AC101,audio decoding chip,smart Audio,Lwip,FreeRTOS,Smart Config,AirKiss,FOTA,IoT...

SKU	UPDATED	PRICE
113990579	2025-09-02 05:58:34	$5.40(Excl. VAT)



Overview



ESP32,ESP32-A1S,ESP8266,NodeMCU,Wi-Fi,Bluetooth,wireless chip,Audio Module,smallest Wi-Fi BT SoC,external 4MPSRAM, Module,Codec AC101,audio decoding chip,smart Audio,Lwip,FreeRTOS,Smart Config,AirKiss,FOTA,IoT hardware terminal applications

Part List

AI Thinker A1S Wi-Fi+BT SoC Audio Module (IPEX block output)	1

Compliance & Logistics

ECCN	5A991.b
HSCODE	8517709000

FCC	1
CE	1

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- https://www.seeedstudio.com/Ai-Thinker-A1S-Wi-Fi-BT-SoC-Audio-Module-IPEX-block-outpu-p-3152.html
- Spec
- Demo
- User Guide
- Factory Firmware
- AT Firmware
- Flash Download Tools
- Ai-thinker Serial Tool
- Ai-thinker Serial Driver for Windos
- Ai-thinker USB-T1 Serial Driver（Windows/Mac_OS/Linux）
- Hardware_resources
- Original SDK
- Arduino Core
- Pin List
- Technical Reference Manual
- AT Instruction Set and Examples
- Get Started
- ESP-IDF (IoT Development Framework) Versions
- ESP-IDF Programming Guide
- API Guides
- API Reference
- Hardware Reference
- Resources
- Downloads Webpage
- Documents Webpage

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