Unit AudioPlayer

SKU:U197

Description

Unit AudioPlayer is an MP3 player unit with built-in decoding, equipped with the audio decoding chip N9301 and a microSD card slot. Users can control the playback of MP3 files on the microSD card through Grove's UART interface. The audio signal is output through a 3.5mm jack, providing clear audio output. This product is suitable for smart voice interaction devices (such as smart home controllers, voice tour guides), industrial automation alarm systems, medical equipment voice prompt terminals, STEAM education, and other scenarios. It can meet the demands of multiple industries for high-quality audio playback and flexible control, especially for embedded projects that require audio triggering through serial port instructions and integrated miniaturized audio solutions.

Features

- N9301 audio decoding chip
- UART communication interface
- 3.5mm stereo jack
- Supports MP3 and WAV audio formats
- Supports FAT16/FAT32 file systems
- Maximum support for 32GB microSD card
- Development platforms
    - UiFlow1
    - UiFlow2

- Arduino IDE

Includes

- 1 x Unit AudioPlayer
- 1 x HY2.0-4P Grove connection cable (20cm)

Application

- Intelligent voice interaction devices (such as smart home control centers, voice guides)
- Industrial automation alarm systems
- Medical device voice prompt terminals
- STEAM education

Specifications

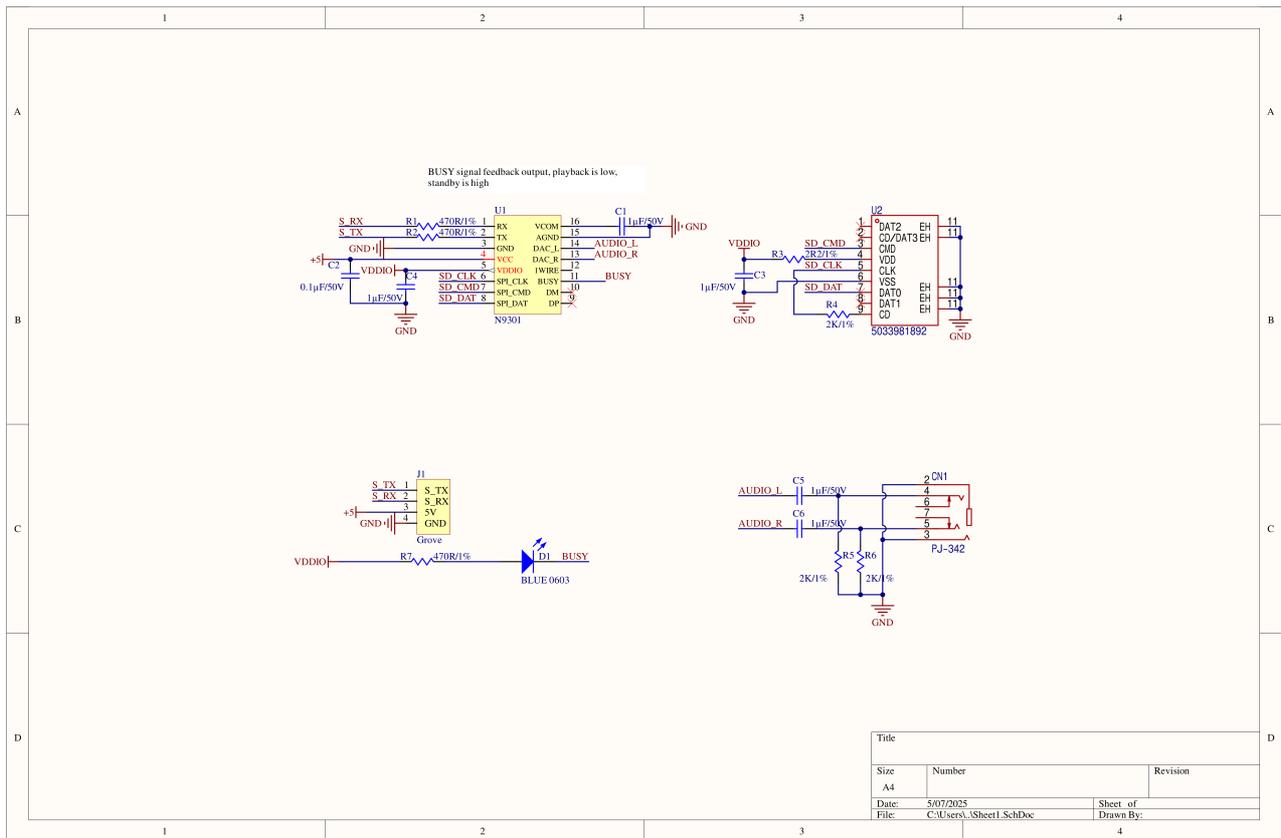| Specification	Parameter
Audio decoding chip	N9301
Storage interface	microSD card slot
Communication method	UART serial communication. Default baud rate: 9600bps@8N1
Audio output interface	3.5mm stereo jack
Power consumption	Operating: DC 5.01V@25.17mA; Standby: DC5.01V@7.33mA; Sleep: DC 5.02V@871.24uA
Product Size	48.0 x 24.0 x 8.0mm
Product weight	6.9g
Package Size	138.0 x 93.0 x 9.0mm
Gross weight	12.8g

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Initialization Notes

Insert the microSD card before powering on Unit AudioPlayer; otherwise, initialization will fail.
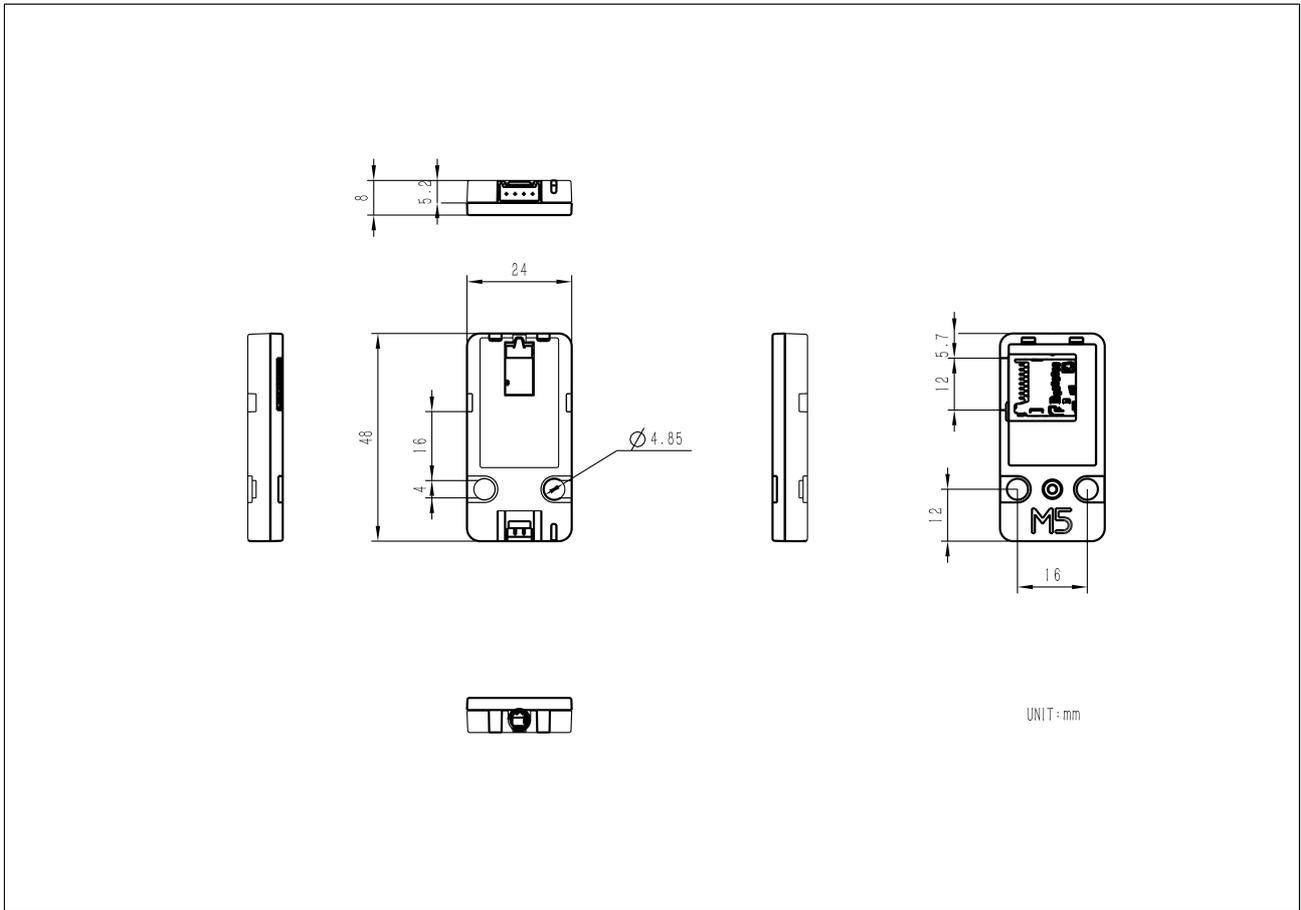
Schematics

PinMap

HY2.0-4P

HY2.0-4P	Black	Red	Yellow	White
PORT.C	GND	5V	UART_RX	UART_TX

Model Size

Unit AudioPlayer Model Size PDF

UNIT：mm

Softwares

Arduino

- [Unit AudioPlayer Arduino Tutorial](#)
- [Unit AudioPlayer Arduino Library](#)

Protocol

- [Unit AudioPlayer UART Protocol](#)

Videos

Product introduction and case demonstration of Unit AudioPlayer

[U197-Unit-AudioPlayer.mp4](#)

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