

TL751X chip PDF download

Main features of TL751X:

High performance:

Supports 24bit/768kHz Codec.

RF sensitivity and transmission power are better than previous generations of audio chips.

Multi-protocol:

Supports multiple protocols such as 2.4GHz, BT, LE Audio, including BLE, Bluetooth 5.4 and its subsequent versions, as well as Mesh, Thread, 802.15.4, Zigbee 3.1, HomeKit, Matter and other protocols.

Multi-mode online:

Supports dual-mode online (such as 2.4GHz + BT or 2.4GHz + LE Audio), and supports three-mode online (such as BT + LE Audio + 2.4GHz private protocol) when hardware, performance and computing power are stronger.

High integration:

Multi-core processor, built-in 3 cores (2 RISC-V and 1 HiFi 5 DSP), the main frequency can reach 300MHz.

Provides a rich set of peripheral interfaces, including I2S, I2C, OSPI/QSPI, S/PDIF, EMMC, SDIO, etc.

Advantages and features of TL751X:

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Multi-protocol:

Supports Bluetooth 5.4 and its subsequent versions, including Mesh, Thread, 802.15.4, Zigbee 3.1, HomeKit, Matter and other protocols.

Multi-mode online:

Supports dual-mode online (such as 2.4GHz + BT or 2.4GHz + LE Audio), and supports triple-mode online (such as BT + LE Audio + 2.4GHz private protocol) when hardware, performance and computing power are stronger.

Third-party platform support: Supports third-party operating system platforms such as Open Thread, Zephyr, FreeRTOS, Hongmeng OS, Ali OS, etc.

High performance:

Supports 24bit/768kHz Codec. The performance of ADC and DAC has been significantly improved, with the SNR of ADC reaching 106dB and THD+N reaching 80dB; the SNR of DAC reaching 120dB and THD+N reaching 90dB.

Supports 6-channel MIC input and stereo output, which can be configured as 6-channel D MIC or 4-channel A MIC plus 2-channel D MIC.

The transmit power can reach 13 dBm in GFSK mode and 10 dBm in EDR2 mode.

The RF sensitivity can reach -98dBm in BLE mode, -102dBm in 802.15.4 mode, and -94dBm in EDR 2Mbps mode.

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High integration:

Multi-core processor, built-in 3 cores (2 RISC-V and 1 HiFi 5 DSP), the main frequency can reach 300MHz.

Rich peripheral interfaces, including OSPI/QSPI, SDIO2.0, EMMC5.1, USB 2.0, I2C*2, UART*4, I2S*3, PWM*6, etc.

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learning, new energy, photovoltaic solar energy, lithium batteries, RFID, brain-like artificial intelligence technology, causal learning algorithm system, brain-like chipset, silicon brain SBB, brain-like decision computing box, edge computing box, machine perception, brain-like decision-making, autonomous unmanned systems, unmanned aviation, unmanned spaceflight, unmanned navigation, unmanned driving, brain-like computing algorithms, chip research, cognitive neuroscience, brain-like algorithms, general artificial intelligence/AGI, brain-like intelligence, brain-like chips, semiconductors, smart hardware and other scientific and technological knowledge sharing and exploration.