



AURIA FS2345

Bluetooth Low-Energy Audio and Wi-Fi Connected Module



APPLICATIONS

- Wireless speakers
- Music systems
- SmartRadios
- Internet radios
- Soundbars

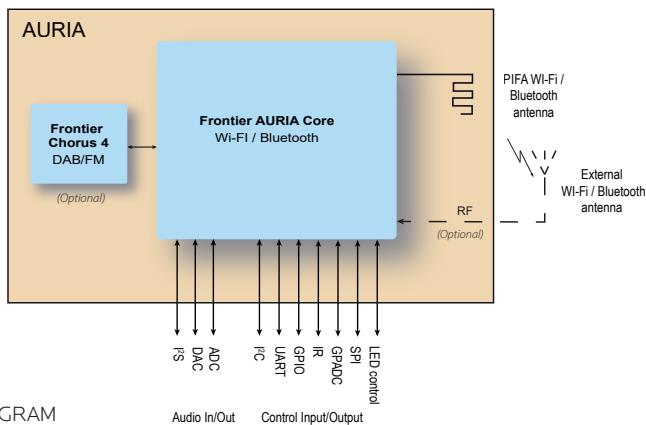


AURIA MODULE - 58MM X 39 MM

OVERVIEW

Frontier AURIA is a cutting-edge audio module designed to power the next generation of Bluetooth® and Wi-Fi audio products. With a focus on delivering the highest quality Hi-Res audio, Bluetooth audio synchronisation across multiple speakers, low power consumption, portability and high security/privacy. AURIA has been designed and engineered to allow brands to create a whole new portfolio of products to compete in established markets and to enter new and emerging audio markets.

AURIA offers simple and straightforward integration into various audio products. The turnkey module, customisable SDK, rich I/O, comprehensive documentation and local technical support provided by our team allow for new products to be quickly brought to market with minimal development cost.



AURIA BLOCK DIAGRAM

CONNECTIVITY

- Dual-core ARM A32 @ 1.2Ghz
- Integrated RAM and Flash memory
- Bluetooth® Low Energy (LE) audio
- Wi-Fi 6 (802.11ax) dual band
- I2S digital audio output
- DAC/ADC for analogue audio I/O
- DAB/FM
- MIPI / SPI display interface
- I/O - I2C, SPI, UART, IR GPIO, GPADC
- Onboard Wi-Fi Bluetooth printed PIFA antenna

FEATURES

- Bluetooth LE Audio LC3 codec.
- Support for Auracast, highly dependable audio sync for multiple devices
- Bluetooth LE easy setup
- Hi-Res audio support ALAC, FLAC @ 24bit 192 kHz
- OKTIV iOS/Android app control
- Spotify Connect
- Battery management for extended battery life
- Pre-set favourite button support
- Customisable EQ
- RoHS compliant

AUDIO SOURCES

- Bluetooth classic / LE Audio
- Spotify Connect
- AirPlay compliance
- Tidal Connect
- Internet radio
- Podcast and listen again
- DAB/FM

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AURIA FS2345

Bluetooth Low-Energy Audio and Wi-Fi Connected Module

NEXT GENERATION BLUETOOTH CONNECTIVITY

AURIA supports the latest Bluetooth technology with Bluetooth Low Energy (LE) Audio. Users experience higher quality audio streaming and reduced power requirements, leading to longer battery life.

Bluetooth Auracast enables AURIA to synchronise broadcast audio to multiple receivers at the same time. Perfect for creating a wireless multi-speaker setup, for parties, listening to audio on Bluetooth headphones or broadcasting audio in public spaces. The audio can stream from a range of sources, from your smart devices or directly via Wi-Fi from the internet, all controlled from your smart device.

LOW POWER CONSUMPTION

We recognize the importance of energy efficiency, especially in battery-powered devices. Our modules are optimized for low power consumption without compromising on audio quality, ensuring longer battery life for portable audio products.

ONE-TOUCH PLAY PRE-SETS

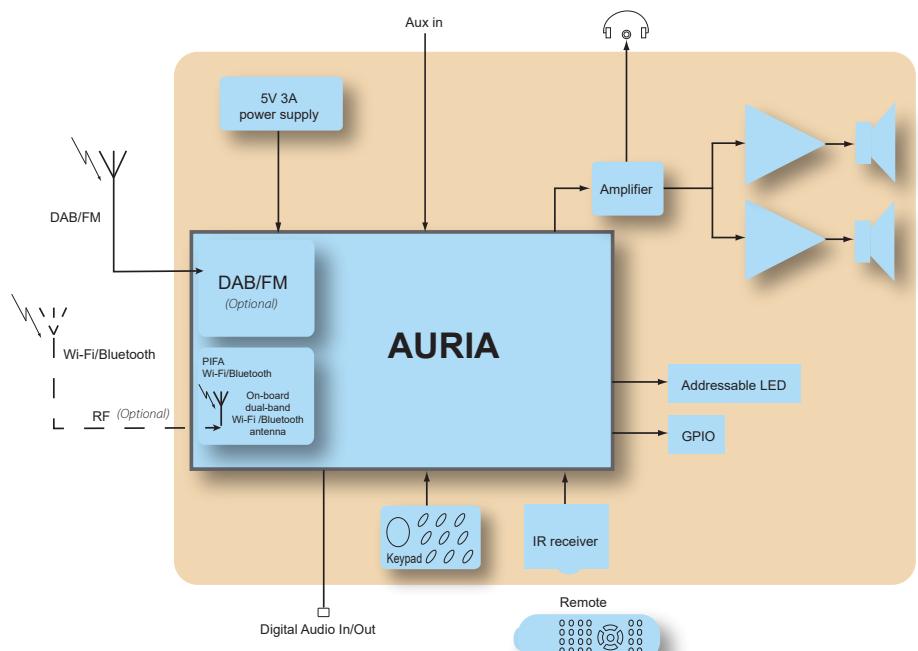
Offer simple audio experiences by allowing songs, podcasts, live streams, playlists to be played or shared to other speakers with a single touch of a button. Wi-Fi means that a mobile device is not required to stream audio from.

SECURITY AND PRIVACY

Designed with security and privacy in mind and to be fully compliant with UK / EU cyber security laws coming into force.



WIDE RANGE OF CONNECTIVITY OPTIONS



AURIA APPLICATION BLOCK DIAGRAM

