

aptX®

Description

aptX encoded audio fits neatly within the available bandwidth of wireless transmission standards to offer an efficient solution for band-width restricted connections.

By incorporating aptX® audio coding technology into the next generation of Bluetooth® stereo products, developers can offer consumers audio quality indistinguishable from wired with an impressive dynamic range.

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Presentation: [Voice and Music](#)

Demo: [aptX® Voice & Music](#)

Demo: [aptX® and DDFA® for quality Bluetooth® streaming audio system](#)

Presentation: [Automotive Infotainment](#)

Key Features

- Compression ratio: 4:1
- Audio Format: 16-bit, 44.1kHz (CD-Quality)
- Data Rates: 352kbps
- Frequency Response: 10Hz to 22kHz
- Algorithmic Delay: <1.89ms @Fs 48KHz
- Dynamic Range: 16-bit: >92dB
- THD+N: -68.8dB

Benefits

- Outstanding Bluetooth® Stereo audio quality
- Audio bandwidth matching CD performance
- Flat Frequency Response. Full audio bandwidth faithfully reproduced
- Low audio coding delay. Minimizes latency and 'lip-sync' issues
- Non destructive transcoding, means there are no dueling effects with other algorithms
- Uses Time Domain ADPCM principle rather than Psychoacoustic masking
- Small code / data memory size
- Backward Compatibility: when aptX is not available target device will pair down to SBC

Product Details

The aptX audio codec is available for high quality stereo audio over Bluetooth. When incorporated in Bluetooth A2DP Stereo products, aptX audio coding delivers full 'wired' audio quality. With the aptX audio codec source material is transparently delivered over the Bluetooth link, whether it is stored uncompressed or in an alternative compression (MP3, AAC, FLAC) format.

- Bluetooth stereo headphones / headsets
- Bluetooth automotive audio
- Bluetooth stereo speakers
- Mobile devices

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