

The audio resolution of Bluetooth audio depends on the Bluetooth codec used and the bit rate of the transmission:

- SBC: The lowest common denominator for Bluetooth connections, with a maximum transfer rate of 320 kbps. This codec is supported by all Bluetooth devices, but it results in lower audio resolution and quality.
- AAC: Preferred by Apple, with a maximum transfer rate of 250 kbps. AAC can support audio quality up to 24-bit/96 kHz.
- aptX: Found in Qualcomm Bluetooth chips, this codec provides minimal latency.
- aptX HD: A higher bandwidth version of the aptX codec, with a bit rate of 576 kbps.
- LDAC: Offers the highest bit rate among Bluetooth codecs at up to 990 kbps, supporting detailed and high-quality audio up to 24-bit/96 kHz.
- LHDC-V: Announced in December 2022, this codec ups the audio resolution to 24-bit/192kHz at 1Mbps.