

Blue SDK

- Highly Customizable, Embedded Bluetooth® Stack

FLEXIBLE

- Easily handles complex interoperability requirements
- Supports advanced use cases such as concurrent, multiple profiles over multiple connections, dual-phonebook download, & more
- Extendable API for adding features/functionality

ROBUST

- Fast integration into any operating system & easy to maintain
- Highly stable and trusted in critical systems
- Supports diverse requirements across many different operating systems, compilers, radios, & applications

PROVEN

- Industry-leading Bluetooth solution for 25+ years
- Proven for Automotive, Medical, Industrial, Mobile, & Consumer applications
- Reduces engineering risk, total project cost, and on-going ownership costs

350 MILLION +

Blue SDK

AUTOMOTIVE SHIPMENTS

powered by



Easily create Bluetooth platforms that support highly complex functionality & behavior requirements with Blue SDK's industry-leading interoperability.

NEW

LE AUDIO

MULTI-STREAM AUDIO	Multiple, Independent, Synchronized Audio Streams
BROADCAST AUDIO	Broadcast Audio Streams to Unlimited Devices
LE AUDIO PROFILES	Completely New Audio Profiles Architecture
AUDIO QUALITY	Better Audio & Voice Quality at Half the Bitrate

RICH APIs

Rich set of flexible APIs with over 25 years' worth of helper APIs, macros, & utilities. Extendable to add features & functionality

FEATURE COMPLETE

Supports nearly all protocol features used in the market and all optional & mandatory features for Automotive profiles

SOURCE CODE

Complete control over all aspects of stack operation prior to compilation & during run time

FLEXIBLE ARCHITECTURE

Clear abstraction of platform-specific code and between integration code and the stack / profiles

INTEGRATED PROFILES

Can be compiled with the stack as a single, self-contained task or into a more complex, multi-threaded environment

SAMPLE APPLICATIONS

Console & Qt-based applications allow demos to be built and executed almost immediately

HARDWARE AGNOSTIC

- Integrates with all "Bluetooth compliant" HCI radio hardware
- Designed for embedded systems with restricted MIPs and memory
- Highly portable / reusable

DRIVERS

- UART (3 and 5-wire), & SDIO transport driver source code provided as sample targeting
- Linux & Windows USB Drivers

PROTOCOL SNIFFER

- Capable of extracting HCI traffic
- Can be integrated with 3rd party sniffers (btsnoop & Teledyne CPAS)

AUDIO INTEGRATION

- ALSA, PulseAudio, gStreamer
- Easily supports third-party codecs, such as aptX™, AAC, MP3, & LDAC™

DOCUMENTATION

Clear, complete documentation including, implementation, porting, & API guides

Specifications

Bluetooth 5.3 Core Specification

Backwards compliant with spec versions 4.2, 5.0, 5.1 and 5.2

Includes the following key components:

RFCOMM, L2CAP, SDP, GAP (SCO Manager, Connection Manager, Device Manager, Security Manager), HCI, Device ID Profile

Listed Qualified Component

All the latest Bluetooth Profiles:

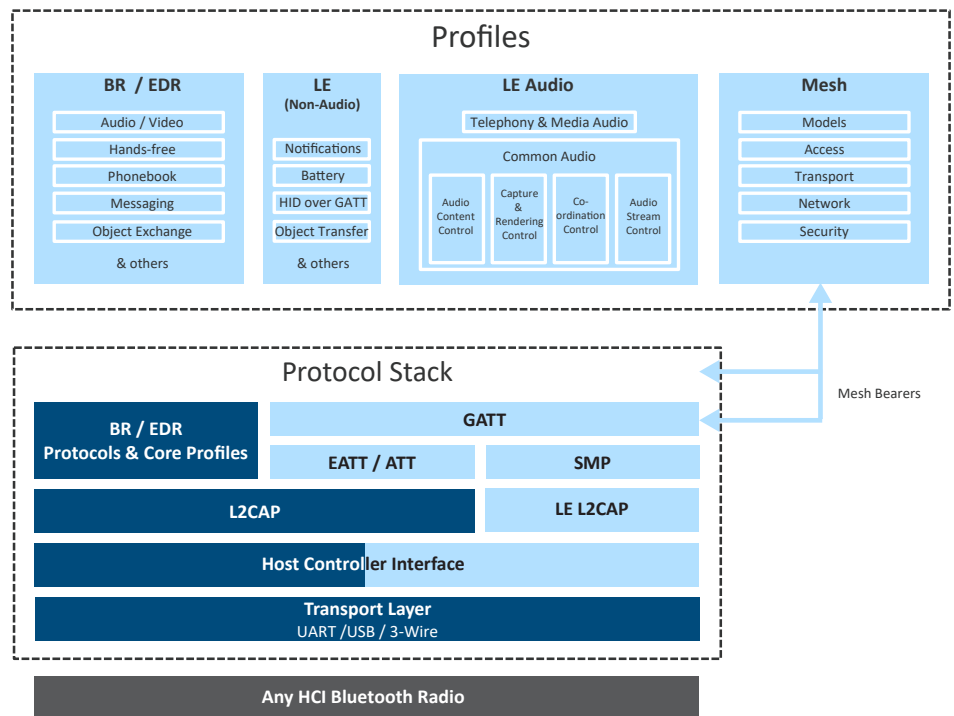
- A2DP 1.3.2
- MAP 1.4.2
- AVRCP 1.6.2
- PBAP 1.2.3
- HFP 1.8
- SPP 1.2

LE Audio Profiles – Q2 2022

AICS, ASCS, BAP, BASS, CAP, CCP, CSIP, CSIS, MCP, (G)MCS, MICP, MICS, OTP, OTS, PACS, (G)TBS, TMAP, VCP, VCS, VOCS, LC3 Codec

Architecture

Dual Mode stack (BR / EDR + Low Energy) with integrated profiles



LE stack & an extensive set of Profiles offered separately

Expert Service & Support



Bluetooth® – Our Bluetooth experts have been building Bluetooth solutions since 1998. We provide fast and detailed responses to offer exceptional support to our customers.

Porting and Integration services available upon request

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