

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

300 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 20 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 5.2 Core Specification

Backwards compliant with spec versions 4.2, 5.0, & 5.1

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:

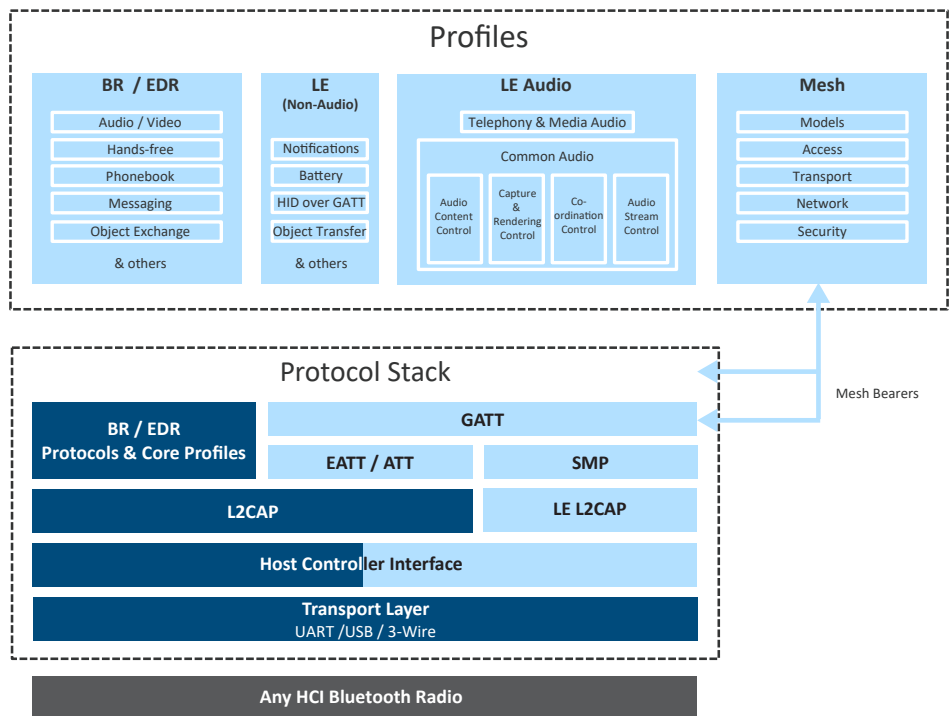
- A2DP 1.3.2
- MAP 1.4.2
- AVRCP 1.6.2
- PBAP 1.2.3
- HFP 1.8
- SPP 1.2

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

Headquarters

Germany

OpenSynergy GmbH
Rotherstraße 20
D – 10245 Berlin

Phone: +49 30 6098 540 - 0

Fax: +49 30 6098 540 - 99

E-mail: sales@opensynergy.com

Web: www.opensynergy.com

Worldwide Sales

United States

OpenSynergy, Inc.
765 East 340 South
Suite 106
American Fork, UT 84003

Phone: +1 (801) 692 1653

E-mail: sales@opensynergy.com

Distributors

Japan

Ubiquitous AI Corporation

Phone: +81 3 3493 7981

E-mail: sales@ubiquitous-ai.com

Web: www.ubiquitous-ai.com