



PACKETCRAFT

WORLD-LEADING WIRELESS

Packetcraft Host

Product Brief

Highlights:

- Bluetooth LE 5.4 qualified, including PAwR
- Full Bluetooth LE 5.3, 5.2, 5.1 and 5.0 qualified
- Bluetooth LE Audio profiles and services
- Mature host stack extensively adopted, tested, and commercially shipping
- Optimized for embedded systems with limited resources (CPU, memory)
- Portable to different CPUs, radios, and operating systems

Applications:

- Audio headsets, earbuds, hearing aids and accessories
- Watches & activity monitors
- Health & fitness devices
- Microphone & speaker
- Talking sensors
- Audio source devices (tablet, camera, etc.)
- Auracast™ broadcast audio wireless infrastructure

Contact:

- www.packetcraft.com
- info@packetcraft.com

Optimized and Qualified Bluetooth LE Host

Packetcraft's feature-rich and mature software dates back to 2009 and is extensively tested and widely adopted. Testing in conjunction with test partners supports interoperability, quality, and reliability.

Packetcraft Host efficiently enables PAwR and LE Audio atop embedded systems operating with limited CPU & memory resources and under battery constraints. Consisting of the Bluetooth LE host protocol stack, GATT profiles, and LE Audio profiles, the Packetcraft Host production-ready Bluetooth 5.4 qualified solution supports mandatory and optional features. When combined with Packetcraft Controller and/or Packetcraft LC3, licensees receive a comprehensive, fully-integrated BLE solution from a single software supplier with exceptional support.

Also offered is Packetcraft Host Tester, a companion test tool allowing Packetcraft's host protocol stack and profiles to be tested on a PC and can interface to PTS, the official qualification tool by Bluetooth SIG.

Host Protocol Stack and GATT Profile Features

- Full BLE 5.4 feature set including: EAD and host support for PAwR
- Full BLE 5.3 feature set including: host support for LE enhanced connection update and LE channel classification
- Full BLE 5.2 feature set including: EATT, host support for isochronous BIS and CIS, and LE power control
- Full BLE 5.1 feature set including: host support for 2Mbps, long range, extended advertising and scanning, and AoA/AoD direction finding
- Suite of popular standard GATT profiles with easy-to-use samples

LE Audio Profile Features

- Generic Audio profiles: BAP, CAP, CSIP, MCP, MICP, VCP
- Generic Audio services: AICS, ASCS, BASS, CAS, CSIS, MCS, MICS, PACS, VCS, TBS, VOCS
- Support for broadcast and unicast audio streams, Acceptor, Initiator, and Commander roles
- Use case profiles: HAP, PBP, TMAP (optional licensing add-on)

Packetcraft, Inc

With several hundred million devices enabled, Packetcraft continues to deliver a legacy of extensively used and well-tested embedded software and protocol stacks for Bluetooth Low Energy.

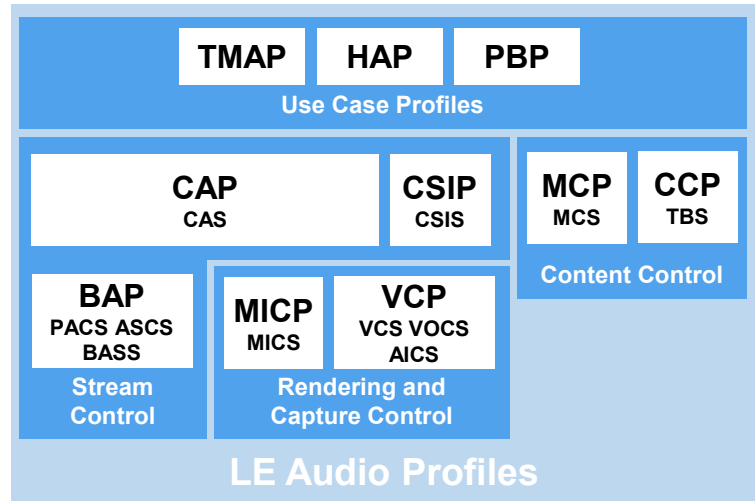
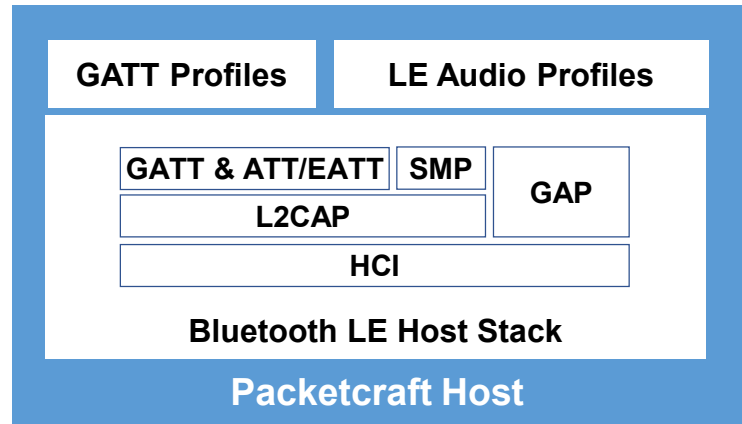
Packetcraft prides itself on both efficient design and achieving first-to-market qualifications which help ensure their customers are at the leading-edge for product innovation and distinction.

Packetcraft's leadership in Bluetooth LE began in 2009 with the founding of Wicentric, continued through Arm's ownership in 2015, and is maintained today as new technological innovations such as LE Audio, PAwR, and Channel Sounding come to market.

Contact:

www.packetcraft.com
info@packetcraft.com

10755 Scripps Poway Pkwy
San Diego, CA 92131



Compliance

Packetcraft Host is qualified to the Bluetooth LE specification v5.4. Fully qualified and listed with the Bluetooth SIG, QDID is 223785. LE Audio profiles qualified, QDID is 199041.

Deliverables

- API source code files
- Full source code or object code library (license tier)
- Make files
- API documentation
- User's guide and release notes