

Description

The LinkIt 2523 HDK by SAC is a fully functional demonstration board for IoT and Wearables applications powered by MediaTek MT2523G, an ARM Cortex-M4 core-based microcontroller unit (MCU). It enables rich connectivity features, communication with cloud services and real-time control. The HDK supports development on Keil IDE and provides additional libraries to integrate a variety of peripherals and enable a new class of highly connected applications.

Supported Features

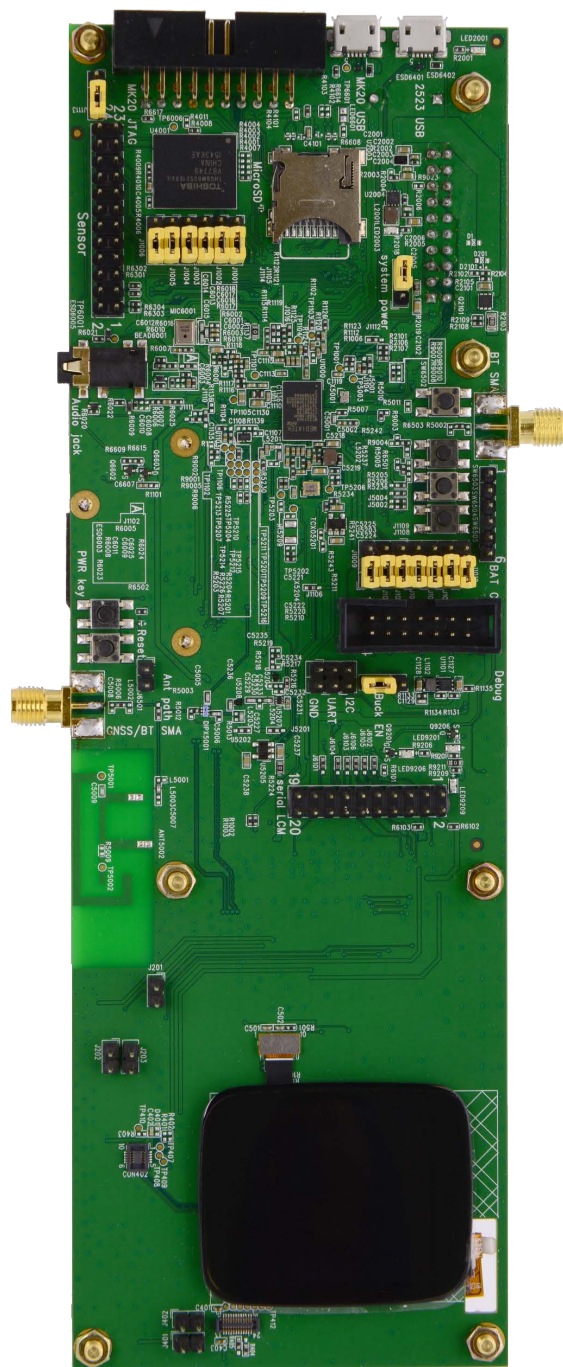
- ARM Cortex-M4 core-based MT2523G microcontroller.
 - Internal 160kB SRAM and 4MB PSRAM.
 - Internal 4MB serial flash.
- Flexible on-board power supply.
 - [USB](#) with power 5V.
 - External battery connector.
- Rich interfaces.
 - Three I²Cs.
 - Four master SPIs and a slave SPI.
 - One master I²S and one slave I²S.
 - One PCM interface.
 - Four UARTs. The first set of UART is directly configured through pin headers, the other three sets are software configurable.
 - Five 12-bit ADCs.
 - Six PWMs by alternative voltage level.
 - Two SDMMCs.
 - JTAG debugging support.
 - Five sets of clock output channels.
- Peripherals.
 - One serial camera interface, up to 3-bit mode image capture.
 - Two display modes by serial interface with 240*240 pixels resolution and MIPI with 320*320 pixels resolution.
 - Keypad supported to simulate buttons like volume up/down, back, enter.
 - Onboard speaker, onboard analog microphone and audio jack.
- User-friendly customization.
 - Supports Bluetooth (2.4GHz) and GNSS with onboard antenna connectivity and also an SMA

connector for dedicated external antenna connectivity.

- Supports 2-wire SWD interface for debugging purposes.
- Headers for convenient and accurate current measurement.

Board Specifications

- Recommended operating temperature: -40 to 85°C.



LinkIt 2523 HDK's front view