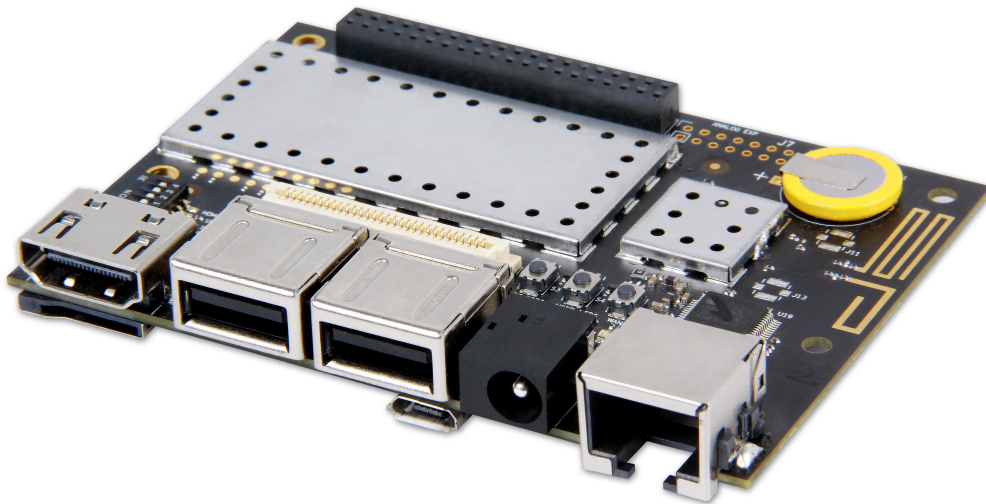


Developer Board 4 SPEC



Overview

Geniatech's Developer Board 4 features Qualcomm Snapdragon 410 processor, a Quadcore ARM® Cortex™ A53 at up to 1.2GHz clock speed per core, capable of 32-bit and 64-bit operation. It supports Android, Linux and Windows 10 and offers advanced processing power, WLAN, Bluetooth, and GPS, all packed into a board the size of a credit card. It is designed to support feature-rich functionality, including multimedia, with the Adreno™ 306 GPU, integrated ISP with up to 13 MP camera support, and 1080p HD video playback and capture with H.264 (AVC).

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Specifications

Processor

Snapdragon 410 quad core ARM® Cortex® A53 (64bit, 1.2GHz)

Qualcomm® Adreno™ 306 GPU

Memory/Storage

1GB or 2GB LPDDR3 533MHz

8GB or 16 GB eMMC 5.0

SD 3.0 (UHS-I)

Display

HDMI 1.3 - HDMI full-size type A connector (1080p HD @ 30 fps)

1x MIPI-DSI 4-lane, up to 720p 60fps or 1080p 30fps for optional display/touch

Camera

2x MIPI-CSI: 1x 4-lane, 1x 2-lane, up to 13MP

Audio

PCM/AAC+/MP3/WMA, ECNS, Audio+ post-processing (optional)

All signals are routed to the analog expansion connector

Connectivity

WLAN 802.11 b/g/n 2.4GHz

Bluetooth 4.1

1x 10/100M Ethernet

1x USB 2.0 micro B (device mode only)

2x USB 2.0 type A (host mode only)

GPS

On-board GPS antenna

On-board BT and WLAN antenna

Expansion connector

1x 40 pin Low Speed (LS) expansion connector

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- UART, SPI, I2S, I2C x2, GPIO x12, DC power
- 1x 60 pin High Speed (HS) expansion connector
- 4L-MIPI DSI, USB, I2C x2, 2L+4LMIPI CSI
- Footprint for one optional 16-pin Analog expansion connector
- Headset, Speaker, FM antenna

External Storage

1x Micro SD socket

User Interface

Power/Reset

Volume Up/down

7 LED indicators

- 4 - user controllable
- 3 - for BT、 WLAN and Ethernet activity

OS-support

Android 5.1

Linux based on Debian

Windows 10 IoT core

Power, Mechanical and Environmental

Power: +6.5V to +18V

Dimensions:85mm*60mm

Operating Temp: -10°C to +85°C

RoHS and Reach compliant

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