

# Developer Board 4\_Hub SPEC



## Overview

Geniatech's Developer Board 4\_Hub 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)

Up to 720p 60fps or 1080p 30fps for optional display/touch

### Camera(Internal)

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

### Audio(Internal)

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

External BT and WLAN antenna

### Expansion connector(Internal)

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**

- 2 LED indicators
- 1 for Power On/Off and Ethernet activity
- 1 for WLAN 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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