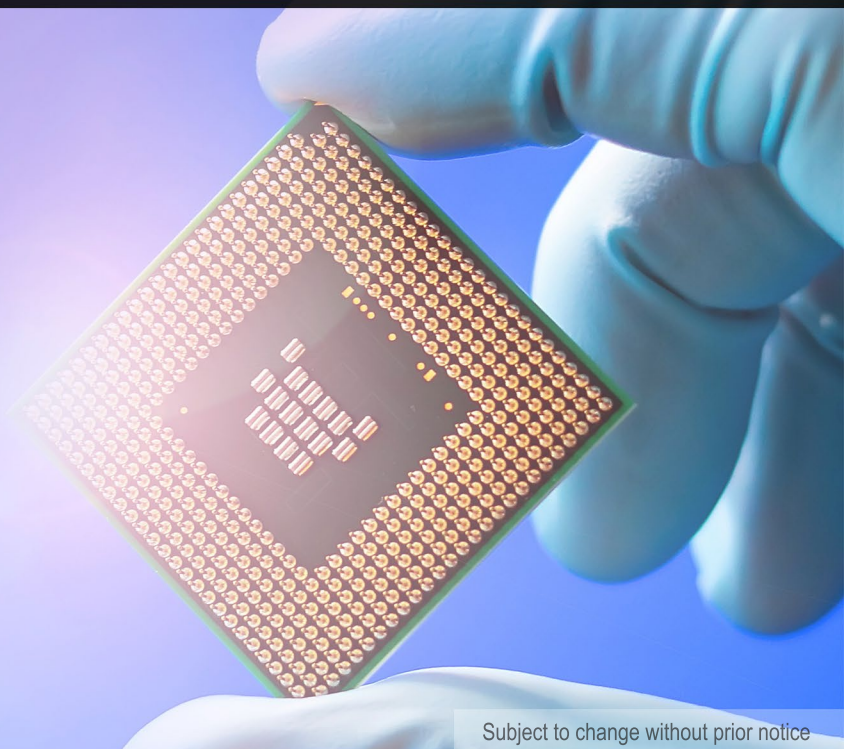


QCS610 System On Module (SoM)



Based on the Qualcomm® QCS610 SoC



Subject to change without prior notice

About eInfochips

eInfochips is product engineering services company offering technology consulting and product design services in multiple industry verticals like aerospace and defense, security and surveillance, medical and healthcare, industrial and home Automation, consumer electronics and more. eInfochips being a Qualcomm Snapdragon Technology Partner (STP) offering turnkey product designs on multiple Snapdragon and other SoCs of Qualcomm® and have enabled global customers with Qualcomm based product designs.

eInfochips Advantages

- **25+ years** of experience in system design
- **2300+ professionals** for HW and SW design
- **30+ B\$ corporations** as customers
- **7 design centres** in USA and India
- **500+ products** across applications
- **200+ designs** on Android and Linux
- **ISO 9001 and CMMi L3** compliant processes

eInfochips QCS610 System on Module (SoM)

eInfochips QCS610 System on Module (SoM), helps product designers to reduce time to market by offering a ready to use compute platform which can be seamlessly integrated to final product design. eInfochips capability to manufacture at scale ensures in time material availability and Arrow's component ecosystem ensures our customers get best price points available in market.

With 50+ Qualcomm based designs eInfochips also offers turnkey engineering services based on QCS610 as per customer specific requirements with optimizations in software BSP performance.

**Enterprise Security
Cameras**

IP Cameras

Dash Cam and Body Cam

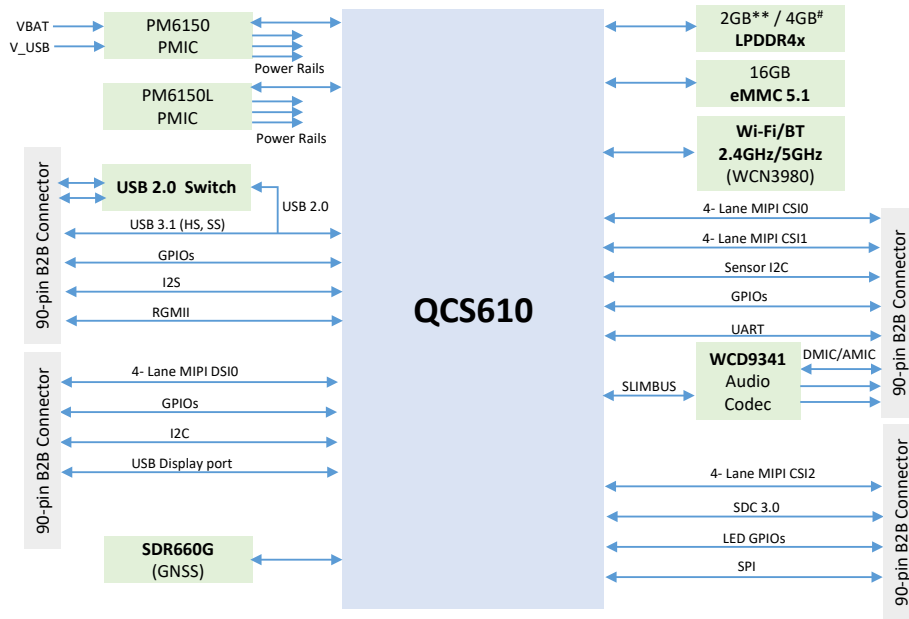
Audio/Video Collaboration

**Home/Industrial
Automation**

Tele-diagnostics

**Smart Display,
Videoconferencing**

Industrial IoT



Datasheet Rev 0.4

Note: This is preliminary information and subject to change without notice

Processor

- Qualcomm® QCS610
- 64-Bit Octa-core Kryo™ 360
- Hexagon™ DSP with dual HVX
- Adreno™ 608 GPU
- Spectra™ 230 Dual 14-bit ISP
- PMIC:
 - PM6150, PM6150L

Memory / Storage

- 2GB** / 4GB# LPDDR4x
- 16GB eMMC 5.1

Connectivity

Wi-Fi:

- Qualcomm® Wi-Fi via WCN3980 802.11a/b/g/n/ac 2.4/5.0 GHz
- U.FL Antenna

Bluetooth:

- Support BT 5.0 + HS and backward compatible

Location:

- GPS

USB

- 1x USB 3.1* (USB 3.1 & USB 2.0 capable)
- 2x USB 2.0*

Camera

- 3x 4-Lane MIPI CSI D-PHY or 3x 3-Trio MIPI CSI C-PHY*
- 1x 90-pin Connector for CSI0, CSI1, and CSI2 each*

Audio

- Qualcomm® WCD9341 audio codec
- 1x Headset headphone output*
- 3x Digital MIC Input*
- 3x Analog MIC input*
- Codec Support: MP3; AAC; HE AAC v1, v2; WMA 9/Pro; FLAC, APE, ALAC, and AIFF

Display

- 1x 4-Lane MIPI DSI DPHY*
- VESA DSC 1.1 support
- Up to FHD+ resolution support
- 1x 90-pin Connector for DSI0*
- DisplayPort v1.4 Support (on SOM pinout)
- Color depth – 30-bit pp; TFT, LTPS, CSTN

Video

Encode:

- H.264 BP/MP/HP, VP8, HEVC Main Codec Support
- Video encode up to 3840 × 2160 at 30 fps or 4096 × 2160 at 24 fps

Decode:

- H.264 BP/MP/HP, MPEG-2 MP, VP8, VP9, HEVC Main Codec Support
- Video decode up to 3840 × 2160 at 30 fps or 4096 × 2160 at 24 fps

Others

- 1x SDC 3.0*
- 1x RGMII*
- 1x UART*
- 2xSPI*
- 2x I2S*
- 3x I2C*
- GPIOs*

Mechanical specification

- 39 mm x 58 mm

Operating System

- Linux

Other Features

- Snapdragon Neural Engine Processing (SNPE) Support

Orderable Part Numbers

Parts with 2GB** Memory:

- SoM: EIC-QCS610-200
- Development Kit: EIC-QCS610-210

Parts with 4GB# Memory:

- SoM: EIC-QCS610-205
- Development Kit: EIC-QCS610-215

* Indicates support available on Development Kit

FOLLOW US



/eInfochips



/einfochipltd



/eInfochips



/einfochipsindia



/eInfochips_Solution

eInfochips, an Arrow company, is a leading global provider of product engineering and semiconductor design services. With over 500+ products developed and 40M deployments in 140 countries, eInfochips continues to fuel technological innovations in multiple verticals. The company's service offerings include digital transformation and connected IoT solutions across various cloud platforms, including AWS and Azure.

Qualcomm Adreno and Qualcomm Quick Charge are products of Qualcomm Technologies, Inc. Qualcomm, Snapdragon, Adreno and Quick Charge are trademarks of Qualcomm Incorporated, registered in the United States and other countries. Used with permission. eInfochips reserves the right to make changes to the information, text, graphics or other items contained within this material at any time, without any prior notice. eInfochips will make their best effort, however cannot commit to keep this material up-to-date. To be assured that you have the latest material, you are encouraged to contact sales@einfochips.com. All brands, logos, product names and service names are trademarks or registered trademarks of their respective companies or organizations.