

QCS410 System On Module (SoM)



Based on the Qualcomm® QCS410 SoC



Qualcomm®
snapdragon



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) offers 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

QCS410 System on Module (SoM)

Qualcomm QCS410 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 QCS410 as per customer specific requirements with optimizations in software BSP performance.

Enterprise Security
Cameras

IP Cameras

Dash Cam and Body Cam

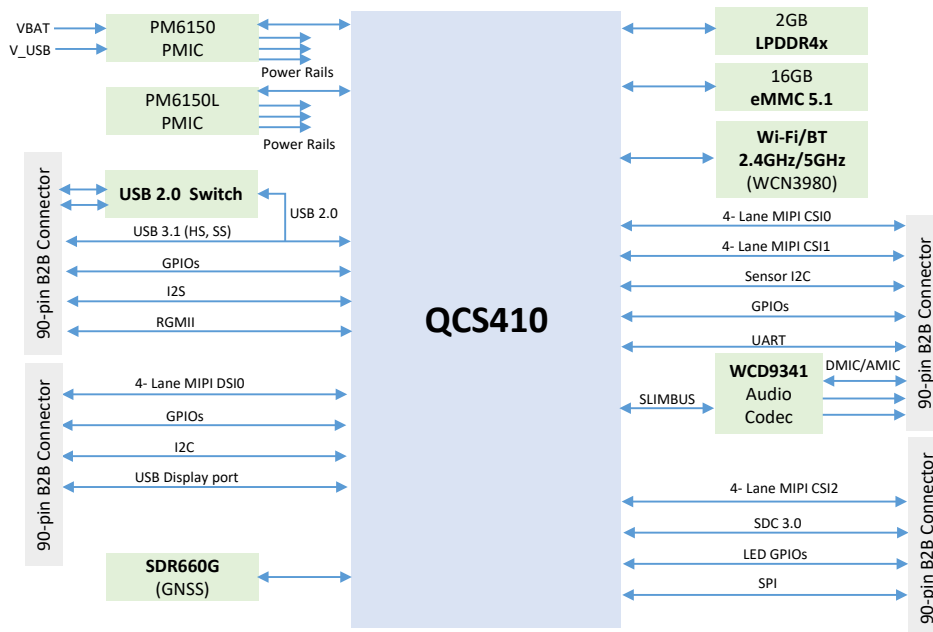
Audio/Video Collaboration

Home/Industrial
Automation

Tele-diagnostics

Smart Display,
Videoconferencing

Industrial IoT



Datasheet Rev 0.1

Processor

- Qualcomm® QCS410
- 64-Bit Quad-core Kryo™ 460
- Hexagon™ DSP with dual HVX
- Adreno™ 612 GPU
- Spectra™ 230 Dual 14-bit ISP
- PMIC:
 - PM6150, PM6150L

Memory / Storage

- 2GB LPDDR4x (Max Support 8GB)
- 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 via carrier board

Bluetooth:

- Support BT 5.0 + HS and backward compatible

USB

- 1x USB 3.0*
- 2x USB 2.0*
- 1x USB DP*

Camera

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

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

Display

- 1x 4-Lane MIPI DSI DPHY*
- 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 1080p 8-bit

Decode:

- H.264 BP/MP/HP, MPEG-2 MP, VP8, VP9, HEVC Main Codec Support
- Video decode up to 1080p 10-bit: HEVC/VP9

GPS

- SDR660G
- GPS (Tested)
- GLONASS, BeiDou, Galileo (Not tested)

Others

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

Mechanical specification

- 39 mm x 58 mm

Operating System

- Qualcomm Linux Development Platform

Other Features

- Snapdragon Neural Engine Processing (SNPE) Support

Orderable Part Numbers

- SoM: EIC-QCS410-200
- Development Kit: EIC-QCS410-210

* indicates support available on Development Kit

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