



Aikri QCS4290 Development Kit

Based on the Qualcomm® QCS4290 SoC

Subject to change without prior notice

About eInfochips

elnfochips is product engineering services company offering technology consulting and product design services in multiple industry verticals like aerospace & 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

- 28 Years of experience in system design
- 10 Design centers worldwide
- 500+ Product designs
- 35+ Product designs on Qualcomm
- 15M+ Product deployments across globe
- ISO 9001, ISO13485, AS9100/EN9100, ISO26262 and CMIMi L3 compliant processes

eInfochips Aikri QCS4290 Dev Kit

elnfochips Aikri QCS4290 development kit is based on Qualcomm[®] QCS4290 System on Chip and delivers greater performance, better graphics, and broader connectivity options.

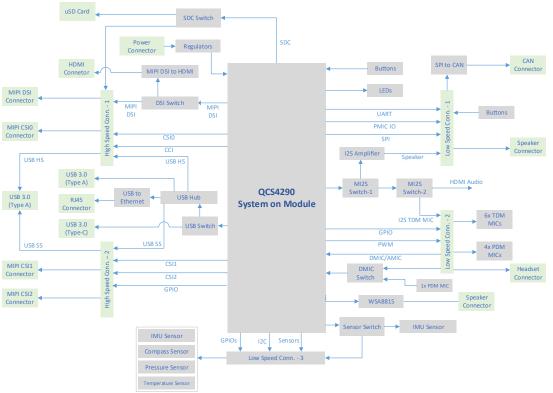
QCS4290 integrates a 64-bit Octa-Core Qualcomm[®] Kryo[™] 260 application processor (Quad Gold cores operating at 2.0 GHz and Quad Silver cores at 1.8 GHz), Qualcomm[®] Hexagon[™] DSP, Qualcomm[®] Adreno[™] 610 GPU, and Qualcomm[®] Spectra[™] 340T image signal processor. It supports Wi-Fi 5 and enhanced Bluetooth 5.1 which offers battery-saving and enhanced security for robust connections.

QCS4290 development kit enables OEMs and engineers to evaluate performance of QCS4290 for their next-gen designs while minimizing design risk factors and reducing design cycle time with early time to market.









System on Module (SoM)

eInfochips Aikri-42X-90AS based on Qualcomm® QCS4290

CARRIER BOARD

Display Interfaces

- HDMI[™] display up to 1080p@60
- DSI to HDMI LT9611UXC bridge chip video and audio

Sensor Interface

- 1x IMU sensor
- **Audio Interfaces**

1x PDM DMIC

- Mono speaker amplifier (WSA8815)
- Stereo I2S amplifiers

HDMI - audio out

I/O Interfaces

- 1x USB 3.1 Type-C
- 1x USB 3.0 Type-A ports
- 1x MicroSD Card
- 1x 10/100/1000 Mbps Ethernet Port via USB 3.0 to Ethernet
- 1x MicroUSB for Console
- 6x User LEDs

Others

 High-speed and low-speed expansion headers (for connecting Mezzanine Board)

MEZZANINE BOARD

Display Interfaces

- 1x MIPI-DSI 4-lane
- 1080p@60 LCD with touch with LCD backlight control
- Camera Interface
- 3x 4-lane CSIs (4/4/4, 4/4/2/1)
- D-PHY 2.5 Gbps/lane

Audio Interfaces

- 4x PDM MICs
- 6x TDM MICs
- 1x Headset Jack
- 2x I2S Speaker connectors

Sensor Interface

- 1x IMU sensor
- 1x Compass sensor
- 1x Pressure sensor
- 1x Temperature sensor

I/O Interfaces

- 1x USB 3.0 Type-A
- GPIOs (low speed expansion connector)
- Battery connector

• 1x CAN (SPI to CAN)

Preliminary specification – subject to change

- **Operating Environment**
- Input voltage: 12V
- Operating temperature: -20 to +60° C

Mechanical Specification

- Carrier board: 85mm x 54mm, 96board CE specification dimensions with headers
- Mezzanine board: 85mm x 54mm, 96board CE specification dimensions with headers

Operating System

• Android 12, Kernel 4.19

Kit Contents

- 1x Aikri-42X-90AS SoM
- 1x Carrier board
- 1x Mezzanine board
- 1x Quick start guide
- **Orderable Part**
- Development kit: Aikri-42X-90AD

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