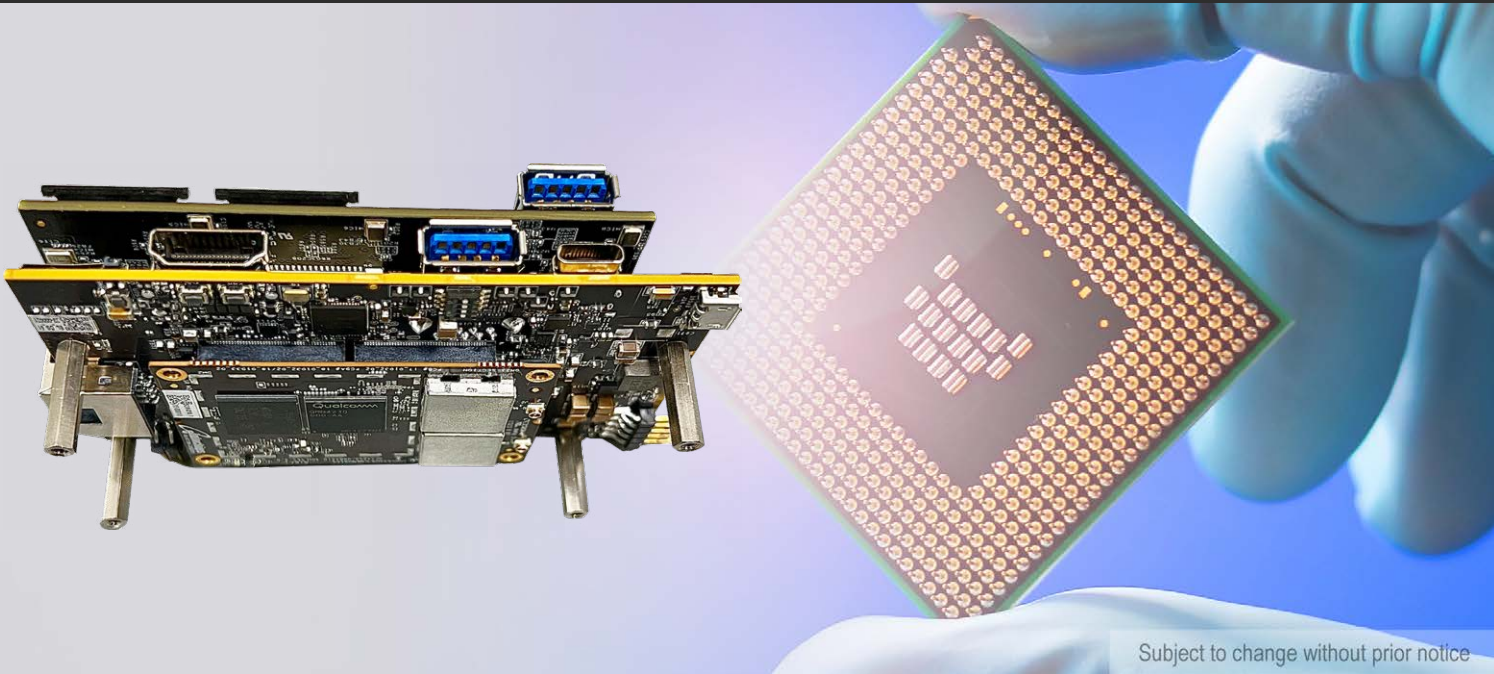


Aikri QRB4210 Display Development Kit

Based on the Qualcomm® QRB4210 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 & 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 CMMi L3 compliant processes

eInfochips Aikri 4210 Display Dev Kit

The Aikri 4210 display dev kit is powered by Qualcomm® QRB4210 based Aikri System on Module. This SoM integrates 64-bit Octa-Core Qualcomm® Kryo™ 260 application processor, Hexagon™ DSP with dual HVX, Adreno™ 610 GPU, and Spectra™ 340T image signal processor.

The Aikri 4210 SoM, coupled with 1x1 802.11ac WiFi, Bluetooth 5.1, full featured USB-C interfaces with HD display capability and high-fidelity audio, enables OEMs and engineers to create next-gen designs with the shortest turnaround time, while minimizing design risk factors.

The Aikri 4210 display dev kit supports rendering of dual concurrent FHD+ displays with 10-bit end-to-end, and Qualcomm® True Palette Display feature, that works behind the scenes and enhances your display's appearance through an intelligent color adjustment and gamut-mapping system to make colors look vibrant and true to life. This system can also be completely powered from battery power.

Surveillance Cameras

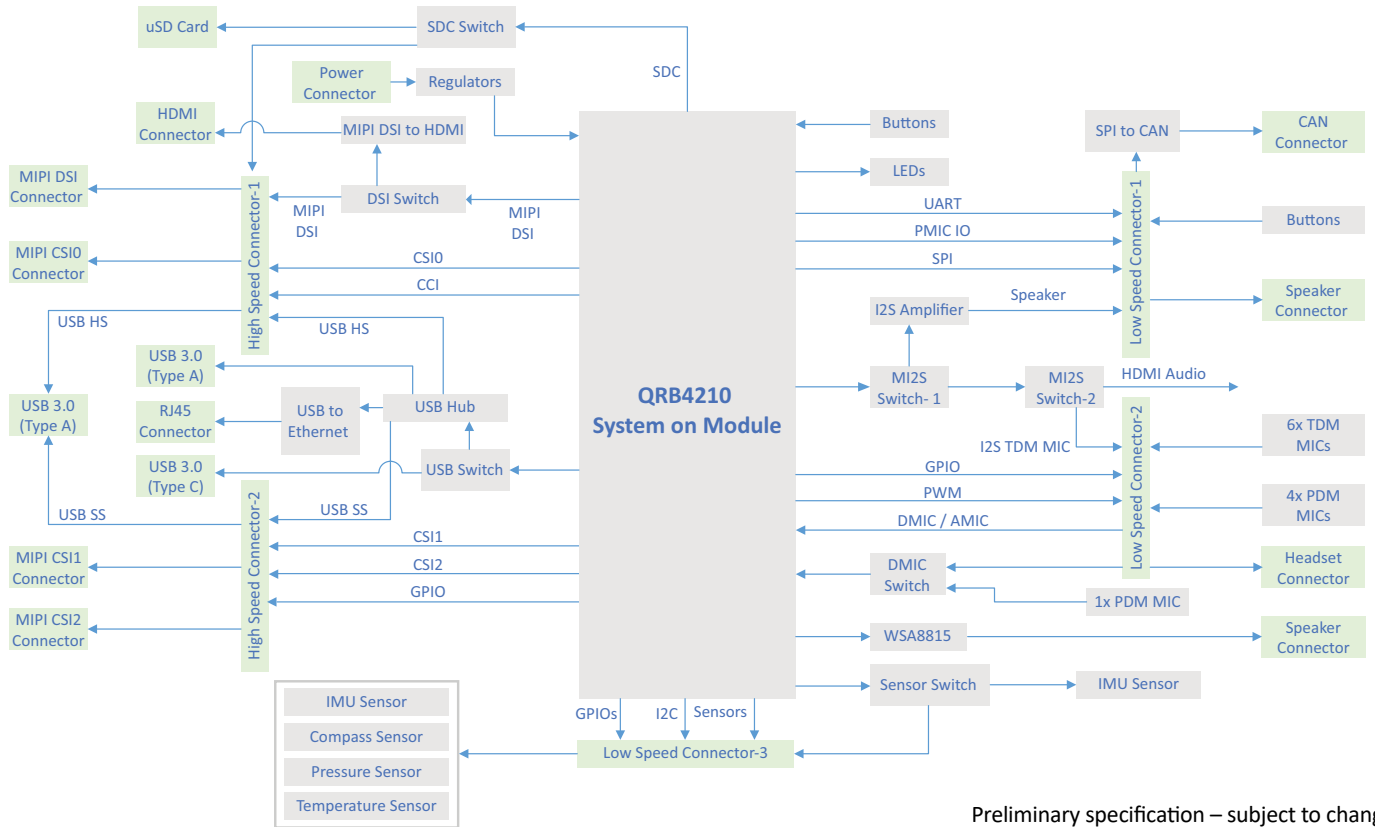
Robotics

Industrial Handhelds

Telehealth / Medical Devices

Digital Signage / HMI

Security Panels



Preliminary specification – subject to change

System on Module (SoM)

eInfochips [Aikri-42X-10LS-3](#) based on Qualcomm® QRB4210

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)

Operating Environment

- Input voltage: 12V Nominal
- 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

- Linux, Yocto Dunfell, Kernel 5.4

Kit Contents

- 1x Aikri-42X-10LS-3 SoM
- 1x carrier board
- 1x Mezzanine board
- 1x quick start guide

Orderable Part

- Development kit: [Aikri-42X-10LD-3-1](#)

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.

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