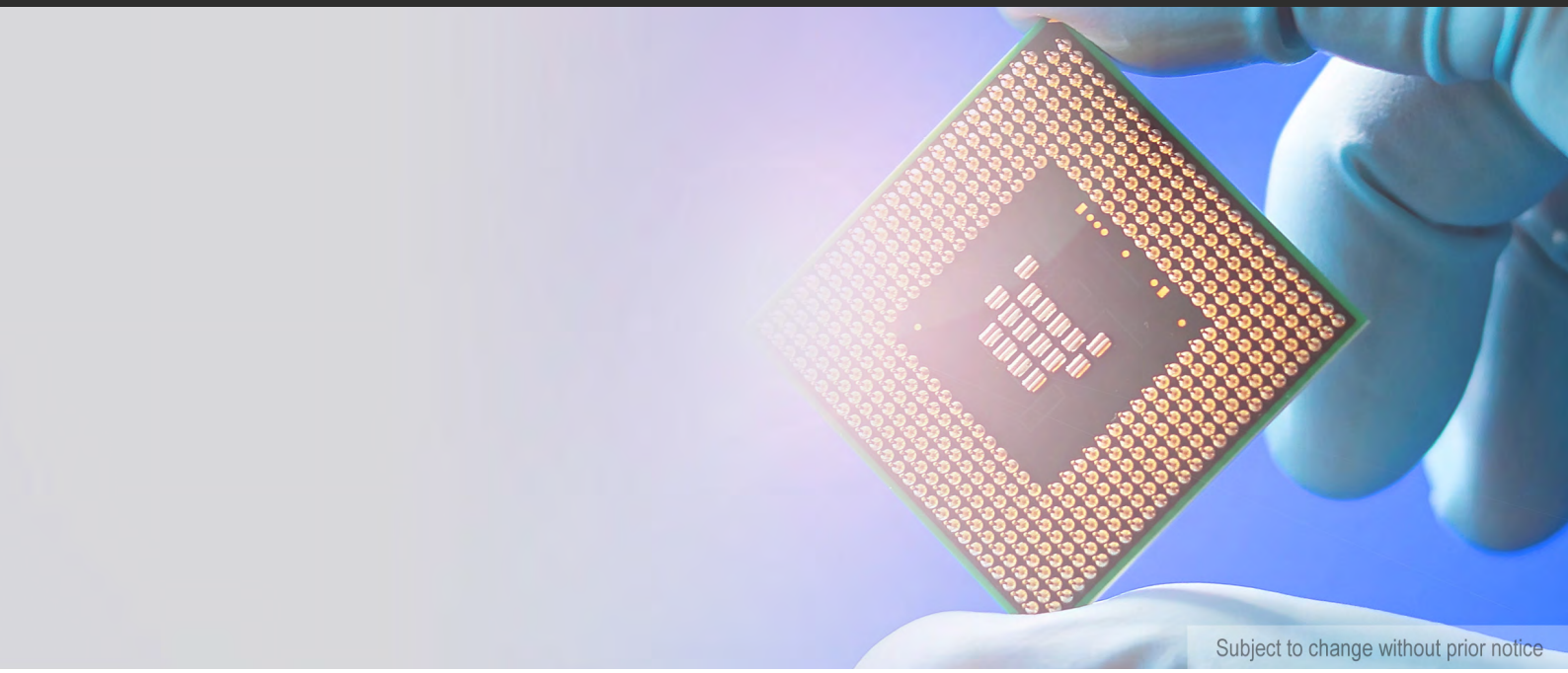
AIkri

eInfochips
An Arrow Company

Aikri QRB2210 System On Module (SoM)

Based on the Qualcomm® QRB2210 SoC



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 QRB2210 SoM

eInfochips Aikri QRB2210 System on Module (SOM) is based on Qualcomm® QRB2210 System on Chip (SOC). It delivers greater performance, better graphics, and broader connectivity options.

QRB2210 integrates a 64-bit Quad-Core application processor at 2.0 GHz, Qualcomm® Adreno™ 702 GPU, and Qualcomm® Spectra™ 340L image signal processor. QRB2210 SoM supports Wi-Fi and enhanced Bluetooth 5.0 which offers battery-saving and enhanced security for robust connections.

QRB2210 SoM enables OEMs to use readily available design solution for their next-gen business application while minimizing design risk factors and reducing design cycle time with early time to market.

Surveillance Cameras

Robotics

Industrial Handhelds

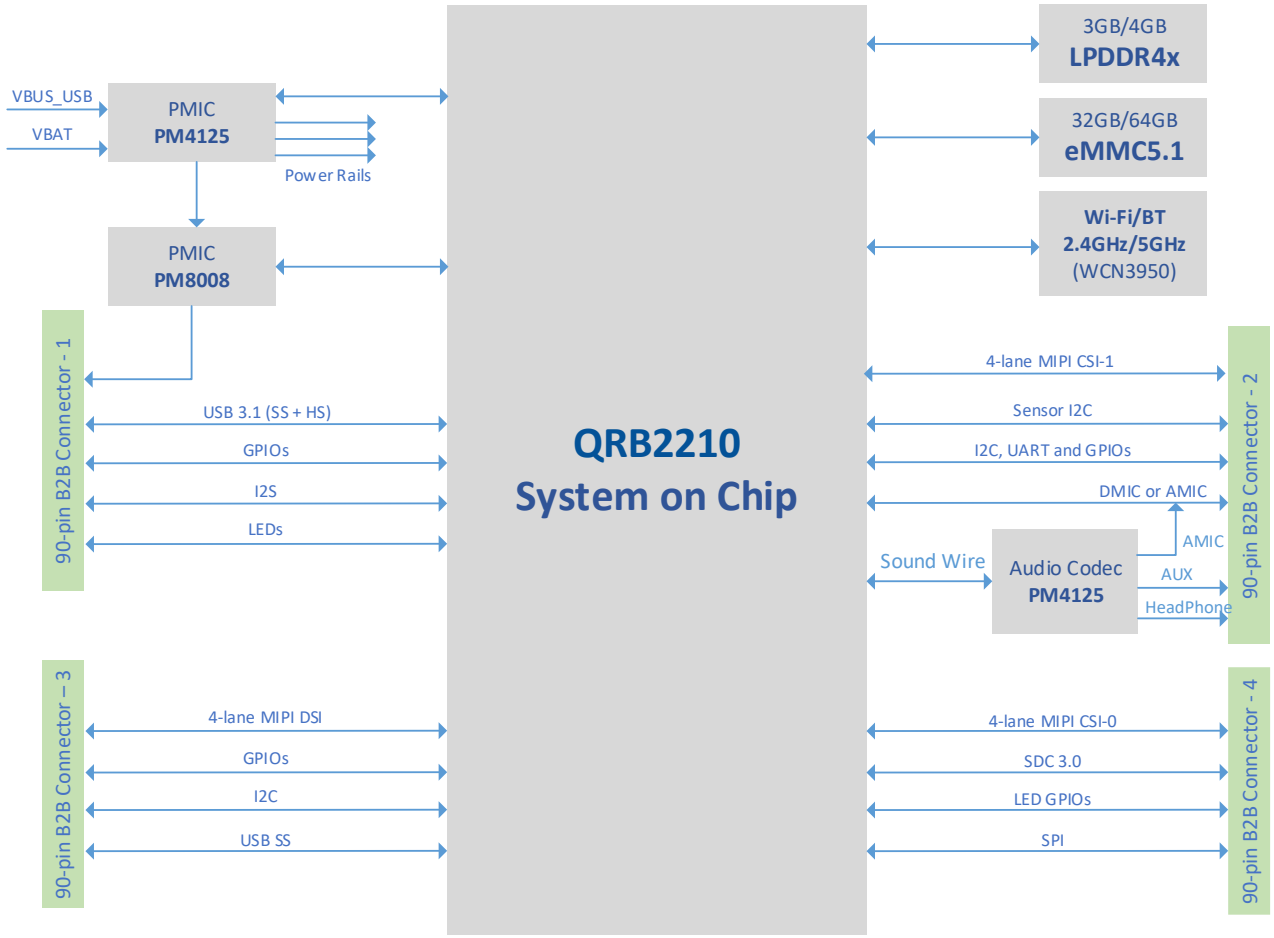
Telehealth / Medical Devices

Digital Signage / HMI

Security Panels

AIkri

eInfochips An Arrow Company | The Solutions People



Preliminary specification – subject to change

Processor
- Qualcomm® QRB2210
- 64-bit Quad-core at 2.0 GHz with 512 KB L2 cache
- Qualcomm® Adreno™ 702 GPU at 845 MHz with 64-bit addressing
- Integrated low-power island (LPI) DSP, shared between sensors and audio

Memory / Storage
- 3GB LPDDR4x
- 32GB eMMC 5.1

Connectivity

Wi-Fi:
- Qualcomm® Wi-Fi via WCN3950 WLAN 1 × 1 802.11a/b/g/n/ac

Bluetooth:
- Bluetooth 5.0

USB
- 1x USB3.1

Audio
- PM4125 PMIC codec
- Soundwire, I2S, SLIMbus to WCN3950 BT

Camera
- Spectra 340L ISP
- 2x 4-lane CSIs (4/4 or 4/2/1 configuration)
- D-PHY 2.5Gbps/lane

Display
- 1x 4-lane MIPI-DSI
- D-PHY 1.2 at 1.5 Gbps per lane, HD+ (720 × 1680 at 60Hz)

Video

Encode:
- 1080p30 8-bit HEVC/H264

Decode:
- 1080p30 8-bit HEVC/H264

Sensors
- SPI, I2C, I3C, GPIO connections to sensor core DSP

Others
- USB 3.1; SDIO; I2S; UART, I2C, I3C, SPI
- GPIO

Operating Environment
- Input Voltage: 3.6V
- Operating Temperature: -30 to +85° C

Mechanical Specification
- SOM: 58mm x 39mm x 4mm*/5.41mm# with 4x 90-pin board to board connectors

*Stacking height
#Standalone height

Operating System
- Linux, Yocto Dunfell, Kernel 5.4

Orderable Part
- System On Module (SOM): Aikri-22X-10LS

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.