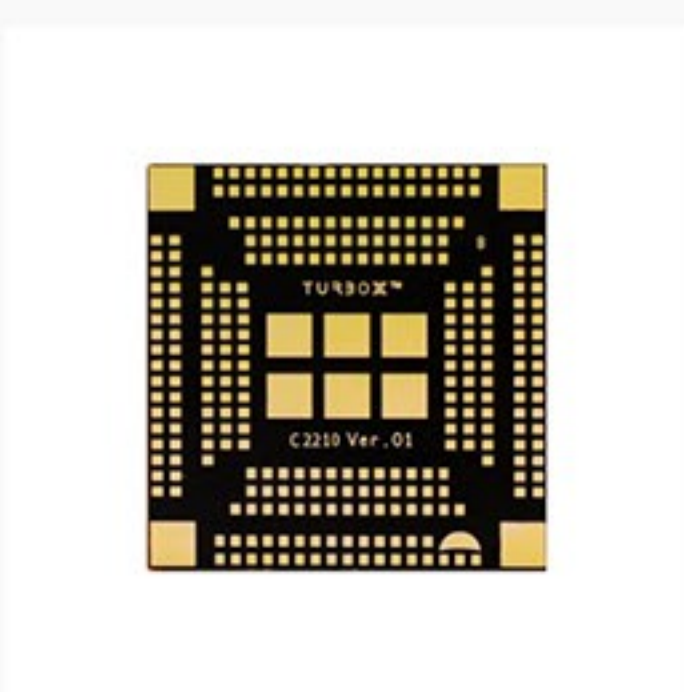


Thundercomm



TURBO X

C2210 SOM

- Robot
- Rugged Handheld
- Smart Camera
- Smart Home Dock

The TurboX C2210 SOM (System on Module) is designed based on the Qualcomm QRB2210 platform. This brings high value features to entry-level devices with better performance and improved power consumption. The TurboX C2210 SOM supports Linux system and can fit variety of products like Entry-tier Robotics, Smart Home Dock, Smart Camera and Rugged Handheld , etc.

Overview

C2210 SOM Applications



Entry-tier Robotics



Smart Home Dock



Smart Camera



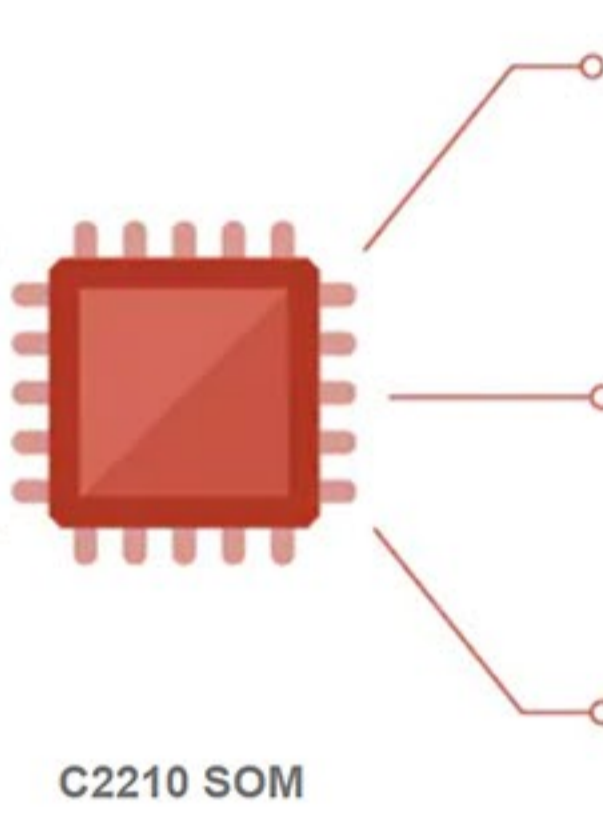
Rugged Handheld

C2210 SOM Features

Discrete memory facilitates memory configuration for cost saving

Video: 1080P@30FPS encode /1080P@30FPS decode

Low Power Sensor core: supports always-on use cases at reduced power level and cost



Display support: HD+, 720x1680 at 60Hz, 10 bit end-to-end, and up to four hardware layers composition

Dual ISPs (Image Signal Processors: two 4-lane CSIs (4/4 or 4/2/1) D-PHY 1.2 at 2.5 Gbps per lane

Connectivity: WLAN 802.11a/b/g/n/ac, Dedicated GNSS RF receiver

Specifications

Category	Description
Region/Operator	Global
Platform	Snapdragon™ QRB2210
	Quad-core Arm Cortex-A53 ,64-bit , 2.0GHz
	Adreno™ 702 GPU
	Hexagon™ QDSP6 v66
Memory	1GB LPDDR4x + 8GB eMMC; 2GB LPDDR4x + 16GB eMMC
WLAN	WLAN 1x1 802.11a/b/g/n/ac
GNSS	Support GPS, Glonass, BeiDou, Galileo, QZSS, and SBAS;
	Reserve GNSS_IQ to extend support Qualcomm GNSS RF IC (WGR7640);
Encode	1080P@30FPS 8-bit HEVC (H.265)
	1080P@30FPS 8-bit H.264
Decode	1080P@30FPS 8-bit H.264
	1080P@30FPS 8-bit HEVC (H.265), VP9
Concurrency	1080P@30FPS decode + 720P@30FPS encode
Display Interfaces	1x 4-lane DSI D-PHY 1.2, up to HD+ (720 x 1680) at 60 Hz
Camera Interfaces	2x 4-lane CSI D-PHY 1.2 at 2.5 Gbps per lane
Other Interfaces	1 x USB 3.1 Type C/USB 2.0; 9 x QUP; 1 x SD Card; 1x I2S, MIC & speaker
Operation Temperature	-25°C ~ +75°C
Dimensions (mm)	34mm x 35mm x 2.9mm
Operating System	Linux
Regulatory standards	FCC/CE/IC/KC/JATE/TELEC
Other Regulatory Standards	RoHS/REACH/WEEE/HF

RELATED PRODUCTS



C2210 Development Kit

- Robot
- Rugged Handheld
- Smart Camera
- Smart Home Dock

Thundercomm

Thundercomm is a world leading IoT product and solution provider. Founded in 2016 as a joint venture between Thundersoft and Qualcomm®. Specializes in combing disruptive technologies like AI, 5G, IoT and cloud computing to provide comprehensive end-to-end solutions for OEM, enterprises and developers in IoT area to accelerate the process from the product prototype to mass production.

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