Aikri QCS405 System On Module (SoM)





Based on the Qualcomm® QCS405 SoC





About elnfochips

elnfochips, an Arrow Electronics company, is a leading provider of digital transformation and product engineering services. elnfochips accelerates time to market for its customers with its expertise in IoT, AI/ML, security, sensors, silicon, wireless, cloud, and power. elnfochips 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 Aikri QCS405 SoM

The Aikri System on Module (SoM) is powered by Qualcomm® QCS405 processor. The QCS405 is designed specifically for smart audio applications and supports features such as Multi-mic Noise/Echo Cancellation that isolates noisy environments from voice, simultaneous multikeyword detection to aid voice services like Amazon Alexa and Google assistant. The Aikri 405 SoM integrates a 64-bit Quad-core Arm Cortex-A53-1.4 GHz CPU, dual Hexagon[™] QDSP6 v66, 2x2 802.11ac DBS Wi-Fi and BT5.0 connectivity and supports a mic array, multi-speaker connection via Wi-Fi/BT, PCIe, HDMI/DSI displays and multi-room audio streaming. This production-ready SoM has a Linux BSP Yocto pre-loaded and helps manufacturers easily create voice-supported smart audio applications such as Smart speakers, Soundbars, Home cinema, Smart assistants, Home Hubs etc.

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



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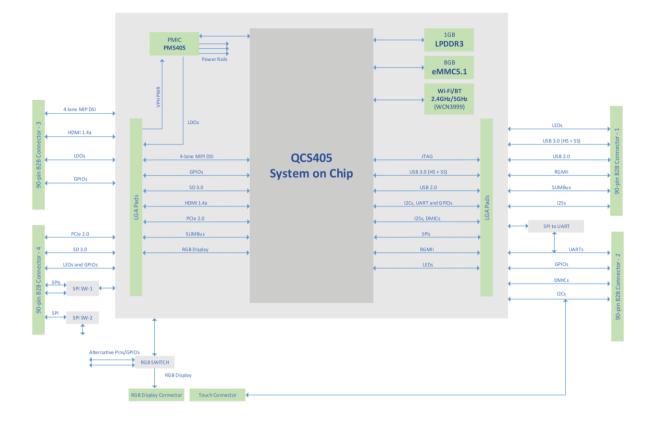
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AIkri

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Aikri QCS405 SoM

Processors	Qualcomm® QCS405 64-bit customized Arm Cortex-A53 quad-core @ up to 1.4 GHz Adreno 306 at 600 MHz Dual Hexagon® QDSP6 v66 DSPs (Audio and Compute with AI engine)			
Memory	1GB LPDDR3, 8GB eMMC			
Connectivity	 Qualcomm® Wi-Fi via WCN3999 WLAN 2x2 802.11ac; Bluetooth5.0 (ufl connectors on board the SoM) Ethernet RGMII 			
Display Interfaces	• 1x HDMI Port - HDMIv1.4a up to 1080p 30fps		• 1x MIPI-DSI 4 lanes	
Audio	 6x Digital MICs through PDM interfaces 6x Channel TDM MICs 6x analog MICs; 3 DMICs from WCD9335 audio codec. 1x headset o/p; 1x earpiece o/p; 2x lineout; 2x stereo space 	eakers from WCD9335	 Encode: PCM and AAC Decode: PCM, AAC, MP3, AIFF, APE, DSF, FLAC and VORBIS 	
I/O Interfaces	 1x USB-C 3.0 GPIOs, SPIs, I2Cs, I3C, UARTs; GPIO connections to sensor core DSP 			
Operating Environment	Input voltage: 3.6V	Operating ter	• Operating temperature: -30 to +85° C	
Mechanical Specification	 SoM: 55mm x 48mm LGA Interposer Board: 65.42 mm X 63.12 mm with 4x 90-pin board to board connectors 			
Software and OS	Linux, Yocto Thud, Kernel 4.14			
Orderable Parts	 System On Module (SOM): Aikri-40X-5LS-1 Development kit: Aikri-40X-5LD-1 			

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