

# TURBOX

## C610/C410 SOM

- 360 Camera
- AI Camera
- Body Camera
- Dash Camera
- Edge Computing
- Video Conference

The TurboX C610/C410 SOM is an intelligent vision platform with powerful image processing and machine learning for smart camera and intelligent IoT devices. It's powered by the Qualcomm® QCS610/QCS410 SoC (System-on-Chip), which is also known as Qualcomm Vision Intelligence, platform providing a cost-effective solution to accelerate the product development and commercialization process. The C610/C410 SOM supports Linux and Android OS, featuring a powerful combination of superior camera and video processing capability, outstanding audio processing solution and onboard Artificial Intelligence (AI) Engine. It serves a great variety of IoT devices including AI camera, Video Conference, Surveillance camera, Panorama camera, Dash Camera and Edge Computing.

### Overview

#### C610/C410 SOM Applications

AI Camera

Video Conference

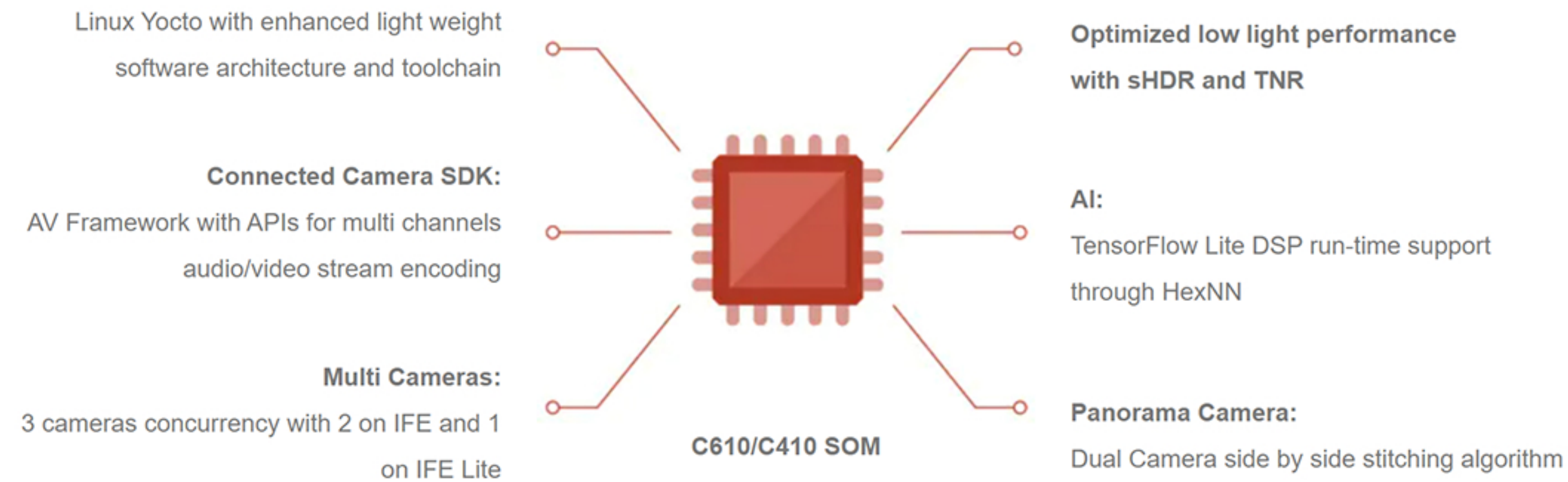
Surveillance Camera

360 Camera

Dash Camera

Edge Computing

#### C610/C410 SOM Features



### Specifications

Category	Description
Platform	C610: 2x K4G (Enyo) 2.2 GHz + 6x K4S (A55) 1.8 GHz, 1MB L3 cache C410: 2x K4G (Enyo) 2.2 GHz + 2x K4S (A55) 1.8 GHz, 1MB L3 cache
GPU	Qualcomm® Adreno™ GPU 612 with 64-bit addressing; 845 MHz
DSP	Hexagon™ DSP with dual Qualcomm® Hexagon™ Vector eXtensions (HVX), 1.1 GHz
Memory	C610: LPDDR4x 2GB + eMMC 16GB (Standard); LPDDR4x 4GB + eMMC 64GB (Pro); C410: LPDDR4x 2GB + eMMC 16GB
Connectivity	WLAN 1 × 1 802.11a/b/g/n/ac and Bluetooth 5.1
Encode	C610: 4K@30 fps 8-bit: HEVC C410: 1080p@90 fps 8-bit: HEVC
Decode	C610: 4K@30 fps 10-bit: HEVC C410: 1080p@90 fps 10-bit: HEVC
Display Interfaces	1 x MIPI-DSI 4-lane, 1080p@60 fps, 1 x DisplayPort
Camera Interfaces	Dual ISP support; 3 x 4-lane CSIs (4/4/4 or 4/4/2/1); D-PHY 2.1Gbps/lane;
Other Interfaces	1 x Slimbus; 1 x USB 3.1; 1 x USB 2.0; 1 x SDIO; 4 x I2S; 14 x QUPs; 1 x RGMII; 120 x GPIOs
Operating Environment	Operation Temperature: -25°C ~ +75°C Operation Humidity: 5%~95%, non-condensing
Dimension	38mm x 38mm
OS Support	Linux, Android

### RELATED PRODUCTS



C610/C410 Open Kit

- 360 Camera
- AI Camera
- Body Camera
- Dash Camera
- Edge Computing
- Video Conference