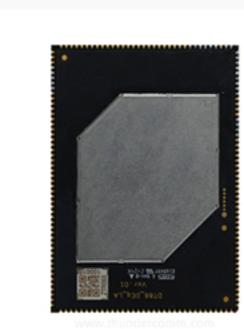
Thundercomm





T U R 3 0 X

C865C SOM

AR/VR Industrial Drone Industrial Robot Medical Device Video Conference

TurboX C865C SOM (System on Module) is a high-performance intelligent module based on Qualcomm® QCS8250 processor. It has integrated Android and the advanced 7nm Fin FET processor, a customized 64-bit Octa-core Qualcomm® Kryo™ 585 application processor.

TurboX C865C SOM supports wide-range Wi-Fi, Wi-Fi6 (Wi-Fi 802.11 a/b/g/n/ac/ax) . It supports one 4K@60FPS or two 4K@30FPS display, as well as multi-camera concurrency. It also integrates multiple audio and video input/output interfaces. TurboX C865C SOM provides a variety of GPIO, I2C, UART and SPI standard interfaces.

In addition, it supports four 4-lane MIPI-CSIs (D-PHY) and one 3-lane MIPI-CSI (C-PHY) together with SOM common standard protocol interfaces such as USB3.1, PCIE2.1/3.0 and I2S.

TurboX C865C SOM provides convenient and stable system solutions for IoT (Internet of Things) application. It can be embedded into devices including VR/AR, Robot, Smart Camera, AI devices, drones and medical devices.

Overview

C865C SOM Applications











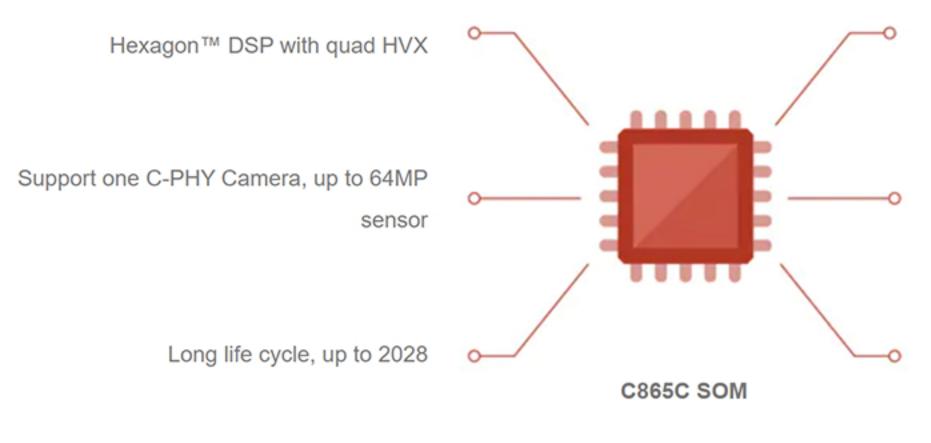
Video Conference

Industrial Robot

Medical Machine

VR/AR

C865C SOM Features



display

Support one 4K@60FPS or two 4K@30FPS

Wi-Fi 802.11a/b/g/n/ac/ax

Cortex technology:1x 2.84GHz; 3x 2.4GHz; 4x 1.8Ghz

Qualcomm® Kryo™ 585 CPU built on Arm

Specifications

Category	Description
Platform	Snapdragon™ QCS8250 Qualcomm® Kryo™ 585 Qualcomm® Adreno™ 650 GPU, Adreno 665 VPU, Adreno 995 DPU Qualcomm® Hexagon™ DSP with quad HVX
Connectivity	Qualcomm Spectra™ 480 image processing Wi-Fi: QCA6391 (802.11 a/b/g/n/ac/ax, 2×2 MIMO)
Encode	8K@30FPS (H.264/H.265/VP8)
Decode	8K@60FPS (H.264/H.265/ VP8/VP9)
Display Interfaces	2x MIPI-DSI 4-lane; Support 5040*2160@60FPS
Camera Interfaces	4x MIPI-CSI D-PHY, 4-lane, 2.5 Gbps per lane; up to 25 MP sensors; 1x MIPI-CSI C-PHY, 3-lane, 10.26 Gbps/trio on three trios per port; up to 64MP sensor;
Other Interfaces	2x RF connector for Wi-Fi, 2 x USB 3.1, 2 x SSC I/F for sensor, 1 x PCIE 1 lane, 1 x PCIE 2 lane, 1 x SDC for SD card, 3 x DMIC interface, GPIOs, UARTs
Operating Environment	Operation Temperature: -25°C ~ +75°C Operation Humidity: 5%~95%, non-condensing
Format	LCC
Voltage	3.2V ~ 4.35V
Dimension	36.5mm x 52mm x 4.55mm
Operating System	Android 10

RELATED PRODUCTS



Industrial Drone AR/VR Medical Device Video Conference



Automated Guided Vehicle Consumption/Entertainment Robot

Industrial Robot Industrial Control Self-driving Vehicle for logistics Service Robot



Automated Guided Vehicle Consumption/Entertainment Robot

Industrial Control Industrial Robot Self-driving Vehicle for logistics Service Robot

Thundercomm **GET IN TOUCH** 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. **ADDRESS**

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