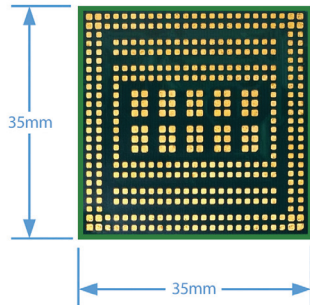# Open-Q™ 2290 SIP
Based on Qualcomm® QCS2290 System-On-Chip

Open-Q™ 2290CS

The Open-Q™ 2290 SIP is an entry-tier solution based on the Qualcomm® QCS2290, with on-board audio codec, 2GB of LPPDR4 memory, 16GB of eMMC, and pre-certified Wi-Fi and Bluetooth. It is an entry-tier solution that delivers greater performance, graphics, camera capabilities, and improved power performance compared to previous generations. It is a 35 x 35mm LGA package that is ideal for industrial IoT applications such as handhelds, panels, POS/kiosks, vending machines, exercise equipment, and camera applications..

Along with the companion development kit, OS and SDKs, and available accessories, it will accelerate your time to market for innovative new products requiring advanced imaging and computer vision performance in low-cost and low-power embedded situations.

Engineering Services:

We provide a full solution – our unparalleled engineering expertise and product development skills deliver innovative products that are cost-effective and can jumpstart your go-to-market timeline.

Our business model offers turnkey product development services, or we can augment your team in specific areas of development. The choice is yours.

Key development expertise in:

- Camera development and tuning
- Voice control
- Machine learning
- Mechanical & RF design
- Thermal & power optimization

IoT product development made easy.

Customer Benefits

- Entry-tier solution that delivers greater performance, graphic, camera capabilities, and improved power performance.
- Scalable volume deployment through future ConsoleFlow™ support for device management, zero-touch provisioning and OTA updates of functionality and security
- Secure compute platform
- Long device life cycle

Target Markets

- Industrial IoT applications including handhelds and panels
- Camera applications
- POS/kiosk, vending machines, exercise equipment displays
- Entry-level robotics including warehouse and logistics

Hardware Specifications:

Product Name	Open-Q 2290CS SIP
Chipset	QCS2290
Memory	2GB LPDDR4
Storage	16GB eMMC
External Storage	uSD
Wi-Fi / BT	802.11 a/b/g/n/ac, 1x1; BT 5.0 with WCN3950
Location	• Support with external GNSS circuitry and WGR7640. Please contact us for more details. • Gen 9, GPS, Glonass, BeiDou, Galileo, QZSS, and SBAS. • NavIC support with WGR7640
Modem	No
Display Interfaces	• One 4-lane; DSI D-PHY 1.2. Split link supported • Adreno 702 at 845 MHz • OpenGL ES 3.1, Vulkan 1.1, OpenCL 2.0 • HD+ (1680x720) @ 60 fps
Camera Interfaces	• 2-ISP • Two cameras: 13 MP +13 MP @ 30fps • One camera: 25MP @ 30fps
Video capabilities	1080p 30 fps encode / 1080p 30fps decode
Audio	4 x DMIC, support for two voice activation engines, integrated low power island for voice activation, supports always-on noise suppression
I/O	USB 3.1 Type C, SDIO, UART, SPI, I2C, I3C, GPIO
PCIe	None
Battery Charger	Yes
Operating Temperature	Extended (-25°C to 85°C)
Form Factor	SIP (LGA)
Dimensions	35 x 35 x 2.8mm
Certification	FCC, RED

Software:

Open-Q 2290CS SIP	Android™ 12 Go

Development Kits

The Open-Q SIP family is compatible with Open-Q AL2 development kit.

Purchasing Information:

SKU	Description	Software
QC-SIP-2290CS-A	Open-Q 2290CS SIP, 2GB LPDDR4, 16G eMMC v5.1	Android™ 12 Go

Alternate SIP configurations available by special order (minimum order quantities apply) -
For example, different memory size, etc. Contact sales to discuss your specific needs today.

Certifications

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