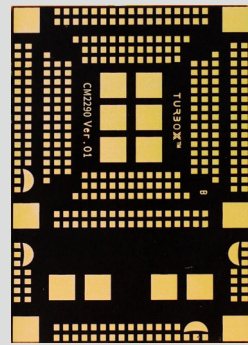


TURBO X CM2290/C2290 SOM



The CM2290/C2290 SOM(System On Module) is designed based on the Qualcomm QCM2290/QCS2290 platform. It brings high-value features to entry-tier devices, delivering greater performance, higher graphics capabilities, better quality images, and improved power performance. The form factor of the module is 35mm*35mm(C2290) and 51mm*35mm(CM2290) LGA package which can fit into devices such as retail point-of-sale(POS), industrial handheld, tracking & camera applications and more. It is ideal platform for both industrial and consumer applications requiring high rate multimedia function, and helps customers rapidly develop cost-effective cellular devices to the market.

Applications



Dash Camera



Surveillance Camera



POS

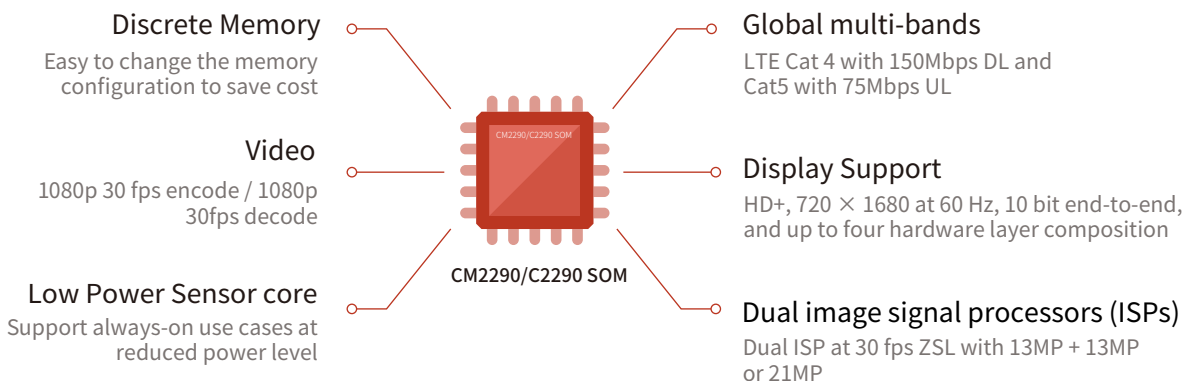


Digital Signage



Vending Machine

Features



Specifications

	CM2290-EA	C2290
Region/Operator	EMEA	Global
Platform	Snapdragon™ QCM2290	Snapdragon™ QCS2290
	Quad-core Arm Cortex-A53 ,64-bit , 2.0GHz	Quad-core Arm Cortex-A53 ,64-bit , 2.0GHz
	Adreno™ 702 GPU	Adreno™ 702 GPU
	Hexagon™ QDSP6 v66	Hexagon™ QDSP6 v66
Memory	LPDDR4x 3GB/2GB + eMMC 16GB	LPDDR4x 3GB/2GB + eMMC 16GB
OS	Android R(2021),Android S(2022)	Android R(2021),Android S(2022),Linux
Dimensions (mm)	51mm x 35mm x 2.9mm	34mm x 35mm x 2.9mm
Temperature	Operation Temperature: -20°C ~ 70°C	Operation Temperature: -20°C ~ 70°C
LTE (Cat4 DL/Cat5 UL)	FDD: B1 / B2 / B3 / B5 / B7 / B8 / B20 / B28(A+B)	NA
	TDD: B38 / B39 / B40 / B41	NA
WCDMA	B1 / B2 / B5 / B8	NA
GSM	850/900/1800/1900 MHz	NA
WLAN	Wi-Fi 802.11a/b/g/n/ac	Wi-Fi 802.11a/b/g/n/ac
Bluetooth	Bluetooth 5.0	Bluetooth 5.0
GNSS	GPS, Glonass, BeiDou, Galileo, QZSS, and SBAS	Reserve GNSS_IQ to extend support Qualcomm WGR7640
Display Interfaces	1x MIPI-DSI 4-lane, Supports HD+(1680 × 720)@60fps	1x MIPI-DSI 4-lane, Supports HD+(1680 × 720)@60fps
Camera Interface	2x MIPI-CSI, 4 + 4 or 4 +2+1, D-PHY 1.2 at 2.5 Gbps per lane;	2x MIPI-CSI, 4 + 4 or 4 +2+1, D-PHY 1.2 at 2.5 Gbps per lane;
	2x ISP (13 MP + 13 MP or 25 MP) at 30 fps ZSL	2x ISP (13 MP + 13 MP or 25 MP) at 30 fps ZSL
Video	Encode: 1080p@30fps (H.265/H.264);	Encode: 1080p@30fps (H.265/H.264);
	Decode: 1080p@30fps (H.265/H.264/VP9);	Decode: 1080p@30fps (H.265/H.264/VP9);
Other Interface	1 x Soundwire, 1 x USB 3.1 Type C/Micro USB; 8 x QUP; 1 x SD Card; 2 x UIM; GPIOs, I2S, 4 x DMIC	1 x Soundwire, 1 x USB 3.1 Type C/Micro USB; 8 x QUP; 1 x SD Card; 2 x UIM; GPIOs, I2S, 4 x DMIC
Regulatory	CE	FCC/CE/IC/KC/JATE/TELECA
Other Regulatory	RoHS/REACH/WEEE/HF	RoHS/REACH/WEEE/HF

Note:

- CM2290-EA is the leading SOM in the variants