

TURBO X

CM2290/C2290 SOM

Body Camera Dash Camera Digital Signage

POS Vending Machine

The TurboX CM2290/C2290 SOM(System On Module) is designed based on the Qualcomm QCM2290 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 be fit into devices such as retail POS (point-of-sale), industrial handheld, tracking and camera applications, etc. It is an ideal platform for both industrial and consumer applications requiring high rate multimedia function, and can help customers rapidly develop cost-effective cellular devices to the market.

Overview

CM2290/C2290 SOM Applications



Dash Camera



Surveillance Camera



POS

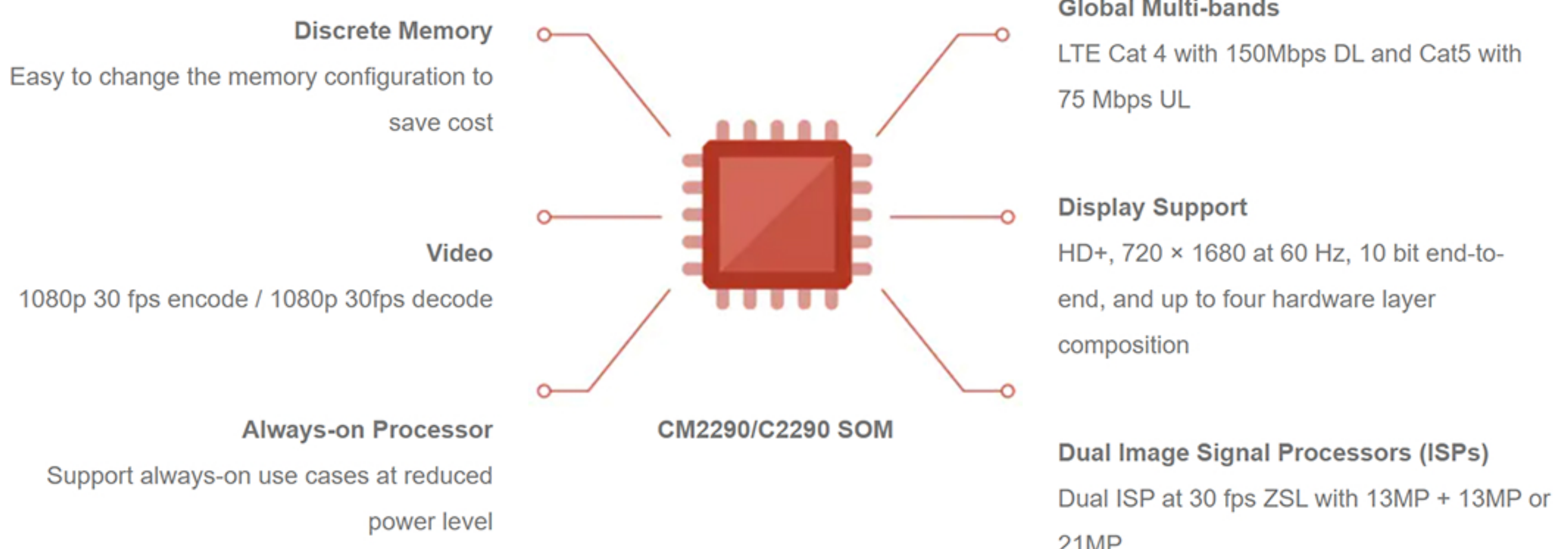


Digital Signage



Vending Machine

CM2290/C2290 SOM Features



Specifications

	CM2290-EA	C2290
Region/Operator	EMEA, Asia	Global
Platform	Snapdragon™ QCM2290	Snapdragon™ QCM2290
	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 11(R), 12(S)*, Linux*	Android 11(R), 12(S)*
Dimensions (mm)	51mm x 35mm x 2.9mm	34mm x 35mm x 2.9mm
Temperature	Operation Temperature: -25°C ~ +75°C	Operation Temperature: -25°C ~ +75°C
LTE (Cat4 DL/Cat5 UL)	FDD: B1 / B2 / B3 / B5 / B7 / B8 / B20 / B28(A+B)	-
	TDD: B38 / B39 / B40 / B41	-
WCDMA	B1 / B2 / B5 / B8	-
GSM	850/900/1800/1900 MHz	-
WLAN	Wi-Fi 802.11a/b/g/n/ac	Wi-Fi 802.11a/b/g/n/ac
GNSS	GPS, Glonass, BeiDou, Galileo, QZSS, and SBAS	GPS, Glonass, BeiDou, Galileo, QZSS, and SBAS (Reserve GNSS_IQ to extend support Qualcomm WGR7640)
Display Interfaces	1x MIPI-DSI 4-lane, Supports HD+(720 × 1680)@60fps	1x MIPI-DSI 4-lane, Supports HD+(720 × 1680)@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 21MP) at 30 fps ZSL	2x ISP (13 MP + 13 MP or 21MP) 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 USB 2.0 or USB3.1; 9 x QUP; 1 x SD Card; 2 x UIM; 1x MI2S, 4 x DMIC, 3x AMIC, GPIOs	1 x USB 2.0 or USB3.1; 9 x QUP; 1 x SD Card; 1x MI2S, 4 x DMIC, 3x AMIC, GPIOs
Regulatory	CE/GCF*/JATE*/TELEC*/KC*	FCC*/CE*/IC*/JATE*/TELEC*/KC*
Other Regulatory	RoHS/REACH/WEEE/HF	RoHS/REACH/WEEE/HF

* : planning or in progress

RELATED PRODUCTS



CM2290/C2290 Development Kit

Body Camera Dash Camera

Digital Signage POS Vending Machine