### Thundercomm





## T U R 3 O XX C4290/CM4290 SOM

Face Payment Robotics Rugged Handheld

Smart Retail Vehicle APP

The CM4290/C4290 SOM (System On Module) is designed based on the Qualcomm® QCM4290/QCS4290 platform. It brings high-value features to mid-tier devices, designed to support advanced graphics, fast LTE connectivity, triple ISPs for advanced dual-camera experience, dedicated compute DSP for computer vision and video post-processing, etc. The form factor of the module is 35mm\*35mm (C4290) and 51mm\*35mm (CM4290) LGA package which can be fit into devices including handy terminal, POS, retail devices, robotics, dash camera, PDA, tablets, etc. CM4290/C4290 SOM is an ideal platform for both industrial and consumer applications requiring high data rates multimedia function, and can help to rapidly develop cost-effective cellular devices to the market.

#### **Overview**

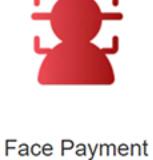
#### C4290/CM4290 Applications



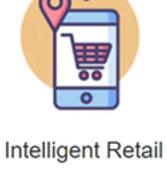




Vehicle APP

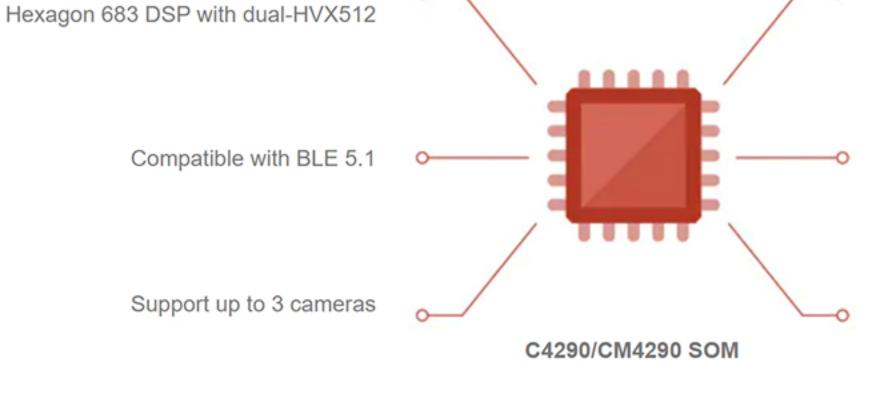


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#### C4290/CM4290 SOM Features



1080P@60FPS video record and play

Wi-Fi 802.11a/b/n/ac LTE support

A53@1.8GHz

Kryo™ 260 CPU:4 x A73@ 2.0GHz + 4 x

## Specifications \_\_\_\_\_

itegory	Description
nipset	4290
atures	Complete stand-alone system module with APU, PMU, memory, LTE (optional), Wi-Fi, BT
Platform	Qualcomm® Kryo™ 260 CPU, 4 x Gold @ 2.0GHz + 4 x Silver @ 1.8GHz
	Qualcomm® Adreno™ 610 GPU @950MHz
	Qualcomm® Hexagon™ 683 2x HVX @1.0GHz
nory	Discrete, LPDDR4x 2GB + eMMC 5.1 16GB
nnectivity	WLAN 1×1, 802.11a/b/g/n/ac, Bluetooth 5.1
VAN(CM4290 Only)	LTE Cat13 2 × 20 CA at 400 Mbps DL and 150 Mbps UL capability
SNSS	Reserve GNSS_IQ to extend support Qualcomm WGR7640
	Gen 9 VT2; GPS, GLONASS, BeiDou, Galileo, QZSS, and SBAS
code	1080P@60FPS (H.264/H.265)
code	1080P@60FPS (H.264/H.265/VP9)
lay Interfaces	1x MIPI-DSI 4-lane; FHD+(1080*2520)@60FPS
Camera Interfaces	3x MIPI-CSI, 4-lane, 2.5 Gbps per lane;
	3 x ISP (13 MP + 13 MP)/(25 MP + 5 MP) at 30 FPS or (16 MP + 16 MP) at 24 FPS
er Interfaces	1 x SoundWire; 1 x USB 3.1; 1 x SD Card; 3 x I2S; 7 x QUP; GPIOs
eration Temperature	-25°C ~ +75°C
age	3.8V ~ 4.2V
Dimensions	C4290: 35mm x 34mm x 2.9mm, Wi-Fi Version
	CM4290: 35mm x 51mm x 2.9mm, LTE + Wi-Fi Version
Support	Android R

# Thundercomm Thundercomm is a world leading IoT product and solution provider. Founded in 2016 as a joint venture between

ADDRESS

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.

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