Thundercomm

TURBOX

C6115 SOM

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TURBOX C6115
C6115-XXX

TPN:C6115-XXX
TSN:C6115-XXX

The C6115 SOM (System on Module) is designed based on the Qualcomm® SM6115 platform. It is pin-to-pin compatible with C4290/C4210 (the SOM used on RB2). It brings high-value features to mid-tier devices and is designed to support advanced graphics, triple ISPs for advanced camera experience, dedicated compute DSP for computer vision and video post-processing, etc. The C6115 SOM can be fit into devices including Digital Signage, Smart Camera, Industrial Robot, Tablet, Handy Terminal, etc. C6115 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 for the market.

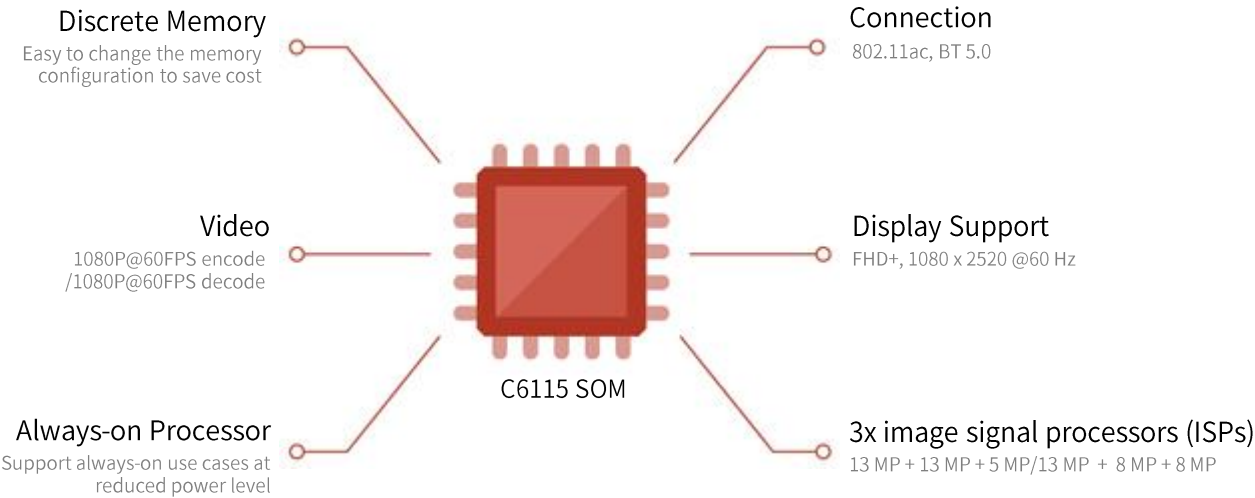## Applications

Digital Signage	Smart Camera	Industrial Robot	Tablet	Handy Terminal

Features

Discrete Memory
Easy to change the memory configuration to save cost

Connection
802.11ac, BT 5.0

Video
1080P@60FPS encode /1080P@60FPS decode

Display Support
FHD+, 1080 x 2520 @60 Hz

C6115 SOM

Always-on Processor
Support always-on use cases at reduced power level

3x image signal processors (ISPs)
13 MP + 13 MP + 5 MP/13 MP + 8 MP + 8 MP

Specifications

Category	Description
Platform	Qualcomm® SM6115 Qualcomm® Kryo™ 260 CPU，4 x Gold @ 2.0GHz + 4 x Silver @ 1.8GHz Qualcomm® Adreno™ 610 GPU @950MHz Qualcomm® Hexagon™ 2x HVX @556MHz
Memory	LPDDR4x 4GB + eMMC 64GB
OS Support	Android 14, LE*
Size & Form Factor	34mm x 35mm x 2.75mm/LGA
Operation Temperature	−25℃ ~ +75℃
WLAN	802.11a/b/g/n/ac
Bluetooth	BT 5.0
Display Interfaces	1x MIPI-DSI 4-lane, support FHD + (1080 x 2520)@60FPS
Camera Interface	MIPI0&1 support D-PHY 1.2/C-PHY 1.0 MIPI2 supports D-PHY 1.2 only
	Real-time sensor input resolution: 13 MP + 13 MP/25 MP + 5 MP at 30 FPS or 16 MP + 16 MP at 24 FPS Three cameras: 13 MP + 13 MP + 5 MP or 13 MP + 8 MP + 8 MP Two cameras: 25 MP + 5 MP or 21 MP + 8 MP
Video	Encode: 1080P@60FPS (H.265)
	Decode: 1080P@60FPS (H.265/VP9)
Other Interface	1 x SoundWire; 1 x USB 3.1; 1 x SD Card; 3 x I2S; 8 x QUP; GPIOs
Certification	FCC*/CE*/JATE*/TELEC*/KC*/SRRC*

* Planning or in progress