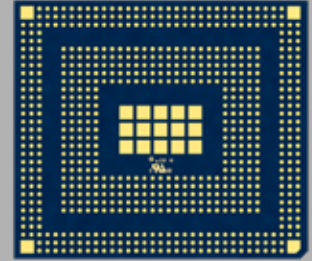


TURBO X CT4350 SOM



The TurboX CT4350 SOM(System On Module) integrates the Qualcomm® Snapdragon™ 480 5G Mobile Platform which includes the Snapdragon X51 5G Modem-RF System supports multiple 5G Sub-6GHz spectrum as well backward-compatible with 4G/LTE network. Besides, Qualcomm® Adreno™ 619 GPU is also integrated which supports video decode/encode 1080p 60fps and 8bit H265. With support of one 4-lane MIPI-DSI, up to 3 cameras with 13+13+13 MP and rich set of peripheral interfaces GPIO/UART/I2C/I3C/SPI/USB 3.1, the CT4350 SOM is the perfect 5G smart module could well fit handy terminal, dash camera, smart POS, drones etc.

Applications



Rugged Handheld



Rugged Tablet



Industrial Drone

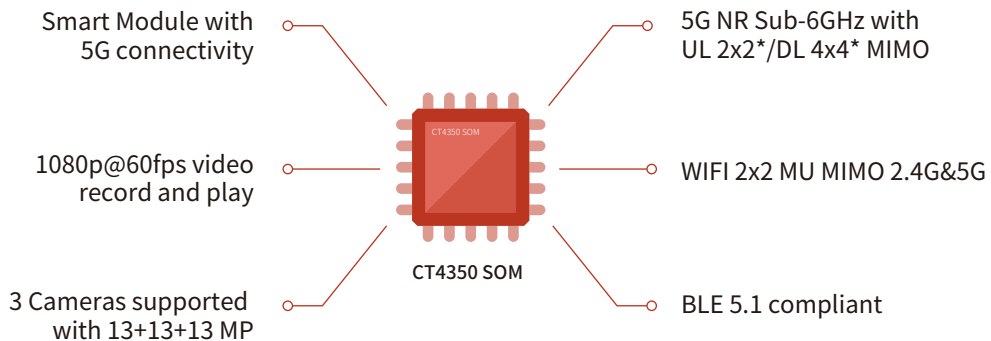


Dash Camera



Mobile POS

Features



*: Partially support depends on different bands

TurboX CT4350-EA SOM Spec

	Specification	Description
SM4350 Chipset	CPU/DSP	Kyro 460(2*Gold 2.0GHz & 6*Sliver 1.7GHz), HVX 512 processor x 2
	GPU/NPU	Adreno™ 619 GPU
	Power Management	PM6350, PM6150L, PM7250B and PMK8003
	RF Transceiver	SDR735
Video	Encode	1080p@60fps (8bit H.265/H.264)
	Decode	1080p@60fps (8bit H.265/H.264;VP9)
	Concurrency	1080p30 decode + 1080p30 encode
Audio	I ² S	4x I ² S (1 x GPIO M-I ² S ports, 3 x LPI I ² S ports)
	SWR	SoundWire interface
Display	MIPI-DSI	One 4-lane; DSI D-PHY 1.2
	Mobile display processor	Adreno DPU 923
Camera	Camera interfaces	3xISP, 13MP + 13MP + 13MP ZSL, MCTF, MFNR
	MIPI-CSI	MIPI combination D-PHY 1.2 configurable in 4/4/4/4, 32 MP, 30 fps 4x4-lane CSI ■ D-PHY: 2.1 Gbps/lane
	Performance	■ Real-time sensor input resolution: 13 + 13 + 13 MP ■ 25 MP, 30 fps ZSL with triple ISP
Memory	DRAM/NAND	LPDDR4x 4GB + UFS 64GB
Air Interface	5G NR	sub-6 GHz: n1, n3, n28, n41, n77, n78, n79
	LTE(Cat18 UL/Cat 15 DL)	B1/B3/B5/B7/B8/B18/B19/B20/B26/B28/B32/B34/B38/B39/B40/B41/B42
	WCDMA	B1/B5/B8/B19
	GNSS	GPS, GLONASS, BeiDou, Galileo, NavIC, QZSS and IRNSS, L1/L5 bands supported

TurboX CT4350-EA SOM Spec

	Specification	Description
Connectivity(WCN3991)	WiFi	2.4G/5G, 2x2 MU MIMO, 802.11 a/b/g/n/ac, ax ready(*)
	Bluetooth	BLE 5.1 Compliant
Data Rate	Peak Download Speed	5G NR: 3Gbps DL 4x4 MIMO
	Peak Upload Speed	5G NR: 900Mbps UL 2x2 MIMO
Connectivity and Peripheral Interface(TBD)	QUP	10 QUP ports, multiplexed serial interface functions (7 ports on GPIO and 3 ports on LPI GPIO)
	UART	UART interface; 7 on GPIO and 1 on LPI GPIO
	I ² C	I ² C interface; 7 on GPIO and 2 on LPI GPIO
	I ² C	I ² C interface; 1 on GPIO and 1 on LPI GPIO
	SPI	SPI interfaces; 3 on GPIO and 1 on LPI GPIO
	CCI I ² C	4 dedicated I2C for camera
	UIM	x2 (1.8V/3V respectively), 5G/4G/3G/2G (SIM1) + 4G/3G/2G (SIM2)
	USB	1 x USB 3.1 (no DisplayPort Support over Type-C)
Form Factor	LGA	LGA; Dimensions 48.0 x 55.0 x 3.3mm
Power Supply	Voltage Range	3.3~4.35V, Typ. 3.8v
Temperature Range	Operation	-30°C to + 75°C
Temperature Range	Storage	-40°C to + 85°C
Software	Operating System	Android 11
	TurboX Easy	Easy Compile/Web View/Tools/SDKs

*: Qualcomm® Wi-Fi 6-ready technology features:
Target Wakeup Time, 8x8 sounding, WPA3 security support