

# Thundercomm

## TurboX S212

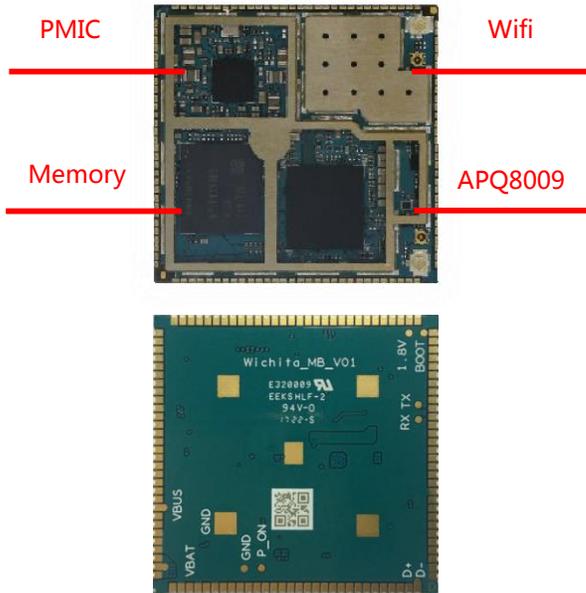
July,2020

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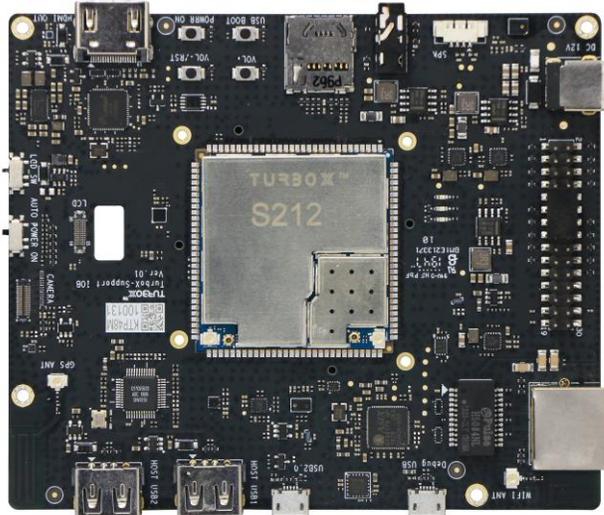
# TurboX S212 SOM Specification



Category	Description
Platform	Snapdragon™ APQ8009 Qualcomm® Quad-core, 32-bit, 1.3GHz Qualcomm® Adreno™ 304 GPU Qualcomm® Hexagon™ 536 DSP
Memory	LPDDR3 1GB + eMMC 8GB
Connectivity	Wi-Fi 802.11a/b/g/n & BT 4.x (BR/EDR + BLE)
Encode	720p@30fps (H.264) WVGA@30fps (H.263/VP8/MPEG-4)
Decode	1080p@30fps (HEVC/H.264/MPEG-4/DivX/VP8) WVGA@30fps (H.263)
Display Interfaces	1x MIPI-DSI 4-lane, Supports HD(1280x720)@60fps
Camera Interfaces	2x MIPI-CSI, 2-lane, 1.5 Gbps per lane; Supports CMOS and CCD sensors Up to 8 MP
Other Interfaces (SOM)	1 x USB2.0; 6 x I2C; 6 x SPI; 5 x UART; 1 x TF Card; I2SX2; 2 x PMU GPIO; PWM x 1+; GPIO x 10+; ADC x 1+
Operating Environment	Operation Temperature: -20°C ~ 70°C Operation Humidity: 5%~95%, non-condensing
Dimension	40 x 41 x 5.5mm
OS Support	Linux

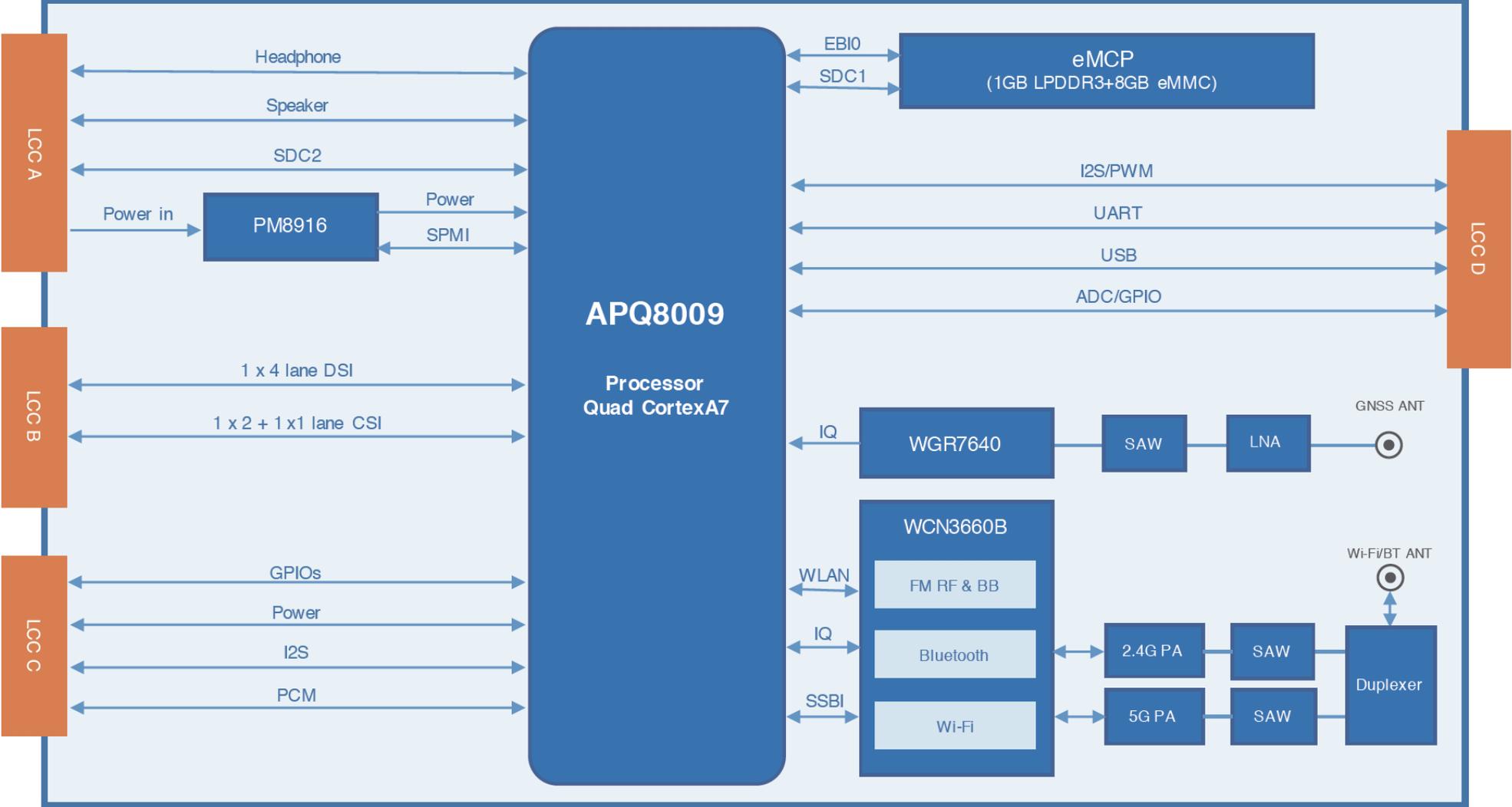
# TurboX S212 DK Specification

S212 Dev



Category	Description
Platform	Snapdragon™ APQ8009 Qualcomm® Quad-core, 32-bit, 1.3GHz Qualcomm® Adreno™ 304 GPU Qualcomm® Hexagon™ 536 DSP
Audio Interfaces	1 x Headset 1 x Analog MIC in 1 x Speaker out
Camera Interfaces	1 x 4-lane CSI
Display Interfaces	1 x MIPI-DSI 4-lane 1 x HDMI OUT
Other Interfaces	2 x USB 2.0 host Type A 1 x Micro USB (Debug ) 1 x Expansion Connector, BLSP configurable as I2C, SPI, UART or GPIO 1 x Ethernet 1 x TF Card 1 x 9-axis Sensor 1 x Light & Proxy-sensor
Operating Environment	Operation Temperature: -20°C ~ 70°C Operation Humidity: 5%~95%, non-condensing
Dimension	TBD

# S212 SoM HW Block Diagram





# Thundercomm

Empowering Every IoT Device with Our Technology

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