

# Thundercomm TurboX™ S626 SOM General SPEC

Thundercomm TurboX™ S626 SOM is a board to board connected, small size (37mm x 52mm), production ready, pre-certified (CE, FCC, RoHS) module, powered by ARM Cortex-A53 64-bit Octa-core Qualcomm® Snapdragon™ 626 applications processor (APQ8053 Pro),

The TurboX S626 SOM is suitable for high quality camera related product. It supports 4k@30fps video, electronic image stabilization and professional camera features including: improved dynamic range, enhanced autofocus performance and computational photography. It provides pre-tested HW and SW OS/BSP, rich interface and valid AVL, and reference IO board. It supports Android and Linux. It can accelerate your product development.

## Major Target Markets



Gate way



Vacuum Robot



Smart Camera



Smart Display Assistant



Digital Signage

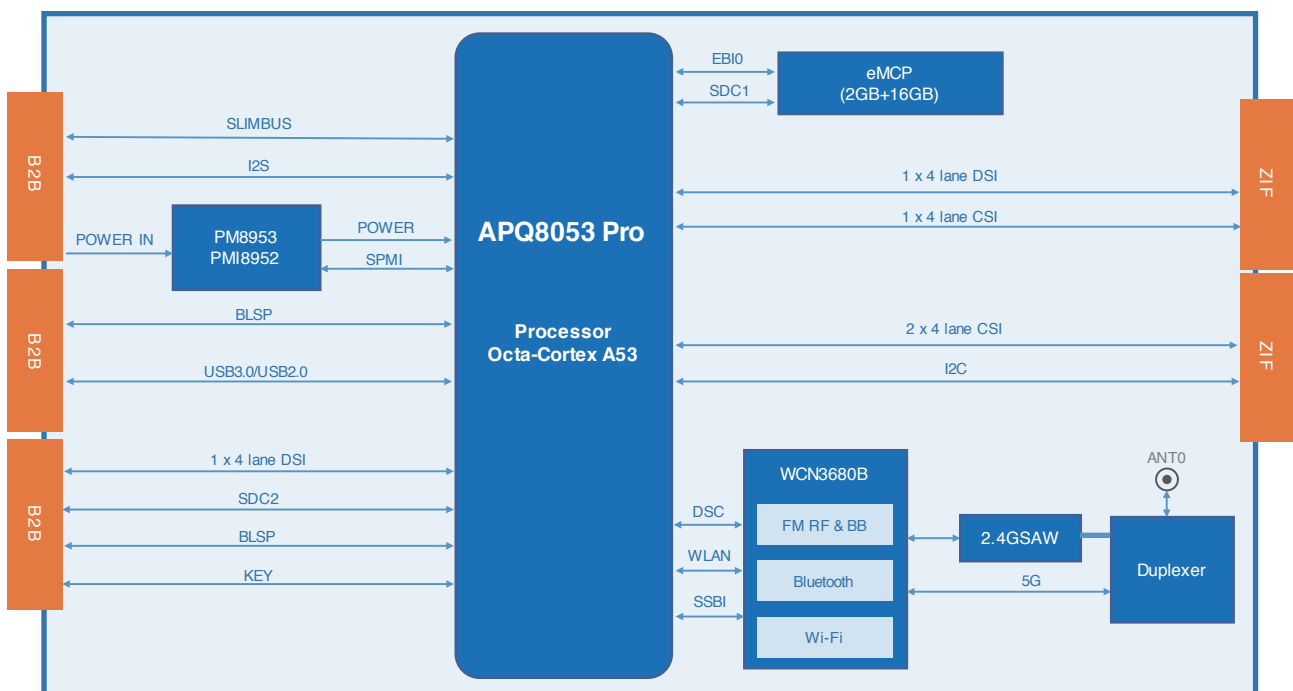


Vending Machine



Hand Held and Other IOT devices

## HW Block



## S626 SOM General SPEC

Category	Item	Description
<b>Platform</b>	Chipset	Snapdragon™ 626 processor (APQ8053 Pro)
	CPU	Qualcomm® Octa-Core, 64-bit, 2.2GHz
	GPU	Qualcomm® Adreno™ 506
	DSP	Qualcomm® Hexagon™ QDSPv56
	OS	Android 7/Linux
	Memory and Storage	LPDDR3 2GB + eMMC 16GB
<b>Multimedia</b>	Display	2x MIPI-DSI 4-lane , FHD(1920*1200)@60fps
	Camera	Dual ISP, 3x MIPI-CSI; 2.1 Gbps per lane; supports CMOS and CCD sensors Up to 24 MP sensors
	Decode	4K@30fps, 1080P@60fps (H.264/H.265/VP8/VP9)
	Encode	4K@30fps, 1080P@60fps (H.264/H.265/VP8)
<b>Connectivity</b>	Wi-Fi/BT	802.11a/b/g/n/ac & 4.x (BR/EDR + BLE)
<b>Interface</b>	Interface	1 x USB3.0; 15 x GPIO; 1 x Slimbus; 1 x SDIO; 1 x I2S; 8 x BLSP;
<b>Dimension</b>	Size	37mm x 52mm x 5.5mm
	Power	+3.8V/3A Input
	Operating Temperature	-20°C to 70°C
	Storage Temperature	-20°C to 80°C
<b>System Environment</b>	Relative Humidity	5% to 95% non-condensing

## Carrier Board

### Audio

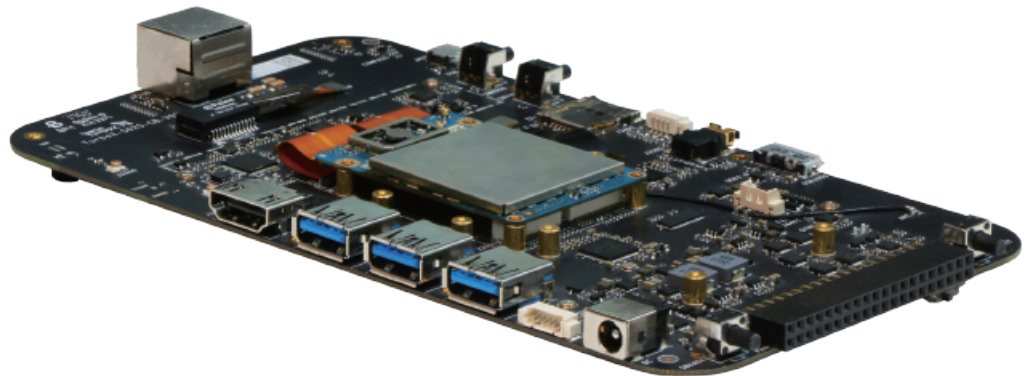
- 1x 3.5mm ANC headset
- 4x digital mic in
- 1x digital out
- 2x Speaker out

### Power

- DC-IN +12V

### Other Interfaces

- 1 x UART debug
- 3 x USB 3.0 host Type A
- 1 x USB 3.0 Micro-B
- 1 x LCD/TP
- 1 x HDMI OUT
- 1 x Ethernet
- 2 x CAMERA B2B
- 1 x Extend IO



Shop for SOM:  
<https://www.thundercomm.com/>