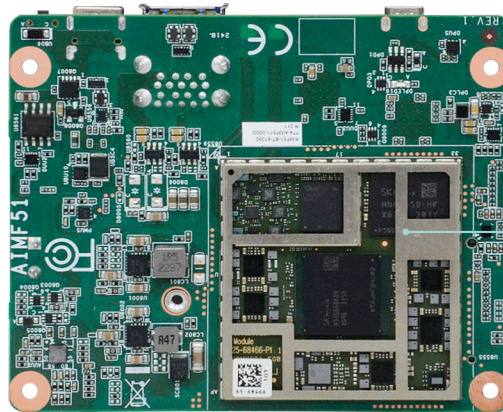
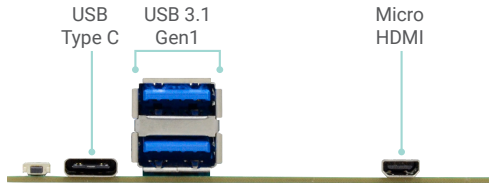


# AIMF51

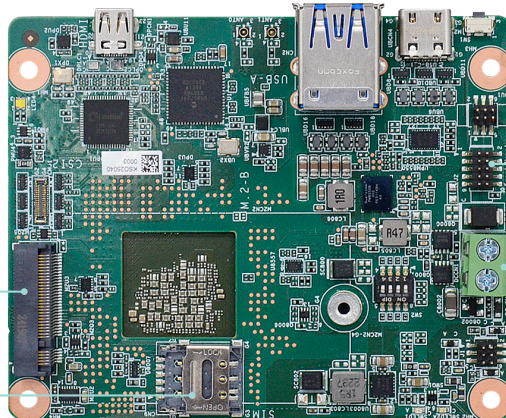


Qualcomm® QCS8550  
1.8" SBC



Qualcomm® QCS8550 Processor

Bottom View



Front Panel

DC-IN

M.2 B key 3052

SIM Slot

Top View

## KEY FEATURES



### Qualcomm

Qualcomm® QCS8550 high-level platform



### LPDDR5

LPDDR5 on board memory up to 8GB



### AI Box

Target on edge AI box, AIoT application



### Ruggedized

Thin client concept and ruggedized design



### AI Architecture

Optimized AI architecture (48 INT8, 12 FP16 TOPs)

## SPECIFICATION

SYSTEM	Processor	Qualcomm® QCS8550 Kryo™ CPU, 8 cores, up to 3.2 GHz	
	Memory	8GB LPDDR5	
GRAPHICS	Controller	Qualcomm® Adreno™ 740 GPU	
	Feature	OpenGL ES 3.2	
	Display	1 x Micro HDMI	
STORAGE	UFS	128GB UFS 3.1	
EXPANSION	Interface	1 x M.2 B key 3052 (USB 3.1, PCIe x1), reference module source: TBD	
		1 x Nano SIM slot	
AUDIO	Audio Codec	Audio codec WCD9385	
REAR I/O	USB	2 x USB 3.1 Gen1 Type A	
	Display	1 x Micro HDMI	
	Debug	1 x USB Type C (Download only)	
INTERNAL I/O	Audio	1 x Line out/Mic in	
	RF Connector	2 x RF connector (Integrated Wi-Fi 7)	
	Other I/O	1 x Power LED, 1 x System LED, 1 x Front Panel	
	Camera	1 x MIPI-CSI2 for 4-lanes camera, reference camera source: BMD13B (Sensor: IMX688)	
POWER	Type	12VDC	
	Connector	2 pin Power Jack	
	Consumption	TBD	
OS SUPPORT	Linux	Android T/13, Kernel 5.15	
ENVIRONMENT	Temperature	Operating: -5°C~65°C	Storage: -40°C~85°C
	Humidity	Operating: 5%~90% RH	Storage: 5%~90% RH
MECHANISM	Dimensions	1.8" Pico-ITX Form Factor	84mm (3.31") x 68mm (2.67")
	Height	PCB: 1.6 mm	
		Top Side: 13.8 mm	
		Bottom Side: 4.0 mm	
STANDARDS AND CERTIFICATIONS	Certifications	CE, FCC, RoHS, UKCA	

## PACKING LIST

• 1 AIMF51 board

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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