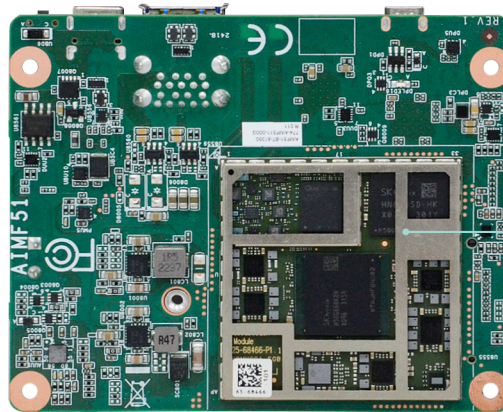
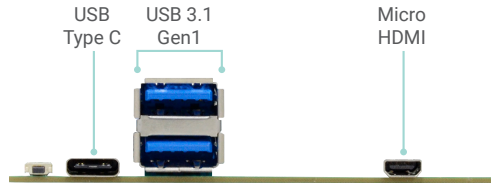


AIMF51

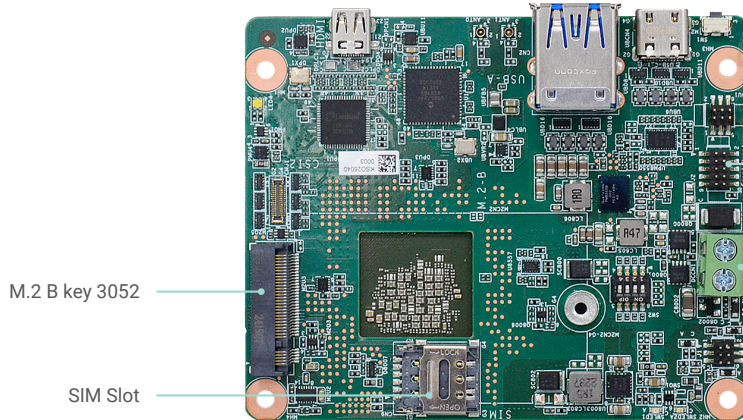


Qualcomm® QCS8550
1.8" SBC



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.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660