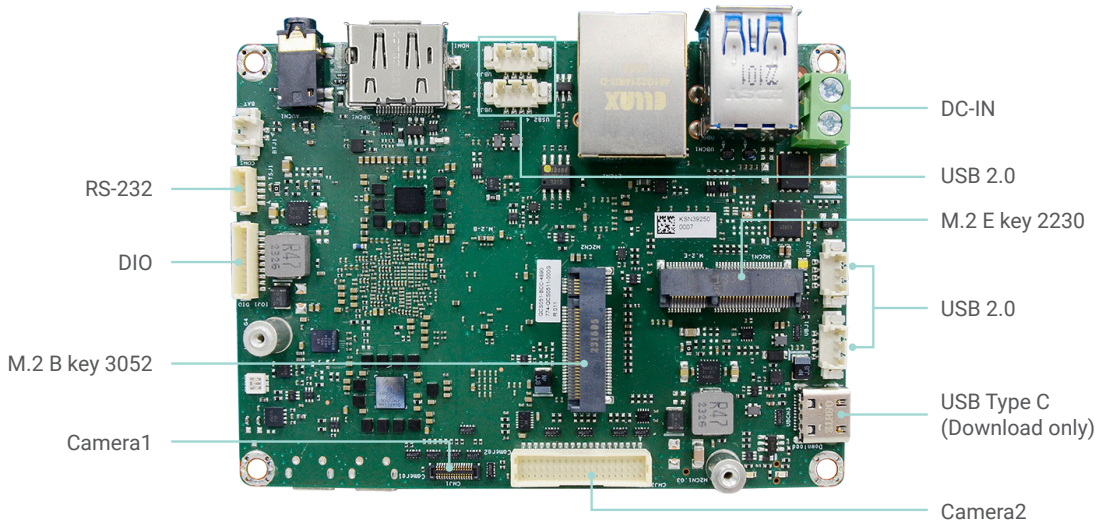
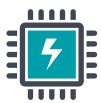


Bottom View



Top View

KEY FEATURES



Qualcomm

Qualcomm QCS6490 high-level platform



LPDDR5x

LPDDR5x on board memory up to 8G



AMR

Target on AMR, box PC application



Ruggedized

Thin client concept and ruggedized design



2 M.2 Expansions

1 M.2 E key 2230, 1 M.2 B key 3052

SPECIFICATION

SYSTEM	Processor	QCS6490 Qualcomm® Kryo™ 670, 8 cores, up to 2.7 GHz	
	Memory	LPDDR5x, 4/8GB	
GRAPHICS	Controller	Qualcomm® Adreno™ 643L GPU	
	Feature	OpenGL ES 3.2	
	Display	1 x HDMI Type A, w/audio. 1080P support on Linux.	
	Single Display	HDMI	
STORAGE	UFS	Support UFS 3.1, default 128GB	
EXPENSION	Interface	1 x M.2 B key 3052 (USB 3.1/ Opt. USB 2.0) reference RM502Q-AE Quectel *Optional USB 2.0 signal with UBJ4	
		1 x Nano SIM slot	
		1 x M.2 E key 2230 (PCIe x1) reference ENL-Q6391M2 Wifi module	
AUDIO	Audio Codec	Audio codec WCD9385	
ETHERNET	Controller	AX88179A USB3 to GbE controller	
REAR I/O	Ethernet	1 x GbE (RJ-45)	
	USB	2 x USB 3.1 Gen1 Type A	
	Display	1 x HDMI 1.4	
	Audio	1 x Line out/Mic in audio jack	
	Debug	1 x Micro USB debug UART	
INTERNAL I/O	Serial	1 x RS-232 (COM1, 1x5P/1.00mm)	
	USB	4 x USB 2.0 (UBJ1/2/4/5, 1x4P/1.25mm), UBJ4 could option to M.2 B key 1 x USB Type C (Download only)	
	DIO	1 x 8-bit DIO	
	CANBus	1 x CAN FD	
	SD	1 x uSD3.0 card	
	Camera	2 x MIPI-CSI2 for 4-lanes camera, reference to IMX577	
	Other I/O	1 x Ext. IO (1*12P/1.25mm), 1 x Power LED, 1 x System LED, 1 x Front Panel, 1 x Fan connector	
	POWER	Type	5VDC
Connector		2 pin Power Jack	
Consumption		TBD	
RTC Battery		CR2032 Coin Cell	
OS SUPPORT	Linux	Ubuntu 20.04 (Linux Kernel 5.4.233)	
ENVIRONMENT	Temperature	Operating: 0°C~60°C	Storage: -40°C~85°C
	Humidity	Operating: 5%~90% RH	Storage: 5%~90% RH
MECHANISM	Dimensions	2.5" Pico-ITX Form Factor	100mm (3.94") x 72mm (2.83")
	Height	PCB: 1 mm	
		Top Side: TBD Bottom Side: TBD	
STANDARDS AND CERTIFICATIONS	Certifications	CE, FCC, RoHS, UKCA	

PACKING LIST

• 1 QCS051 board