

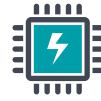
# EC900-QCS



Qualcomm® QCS6490  
Ultra Small Size Embedded System



## KEY FEATURES



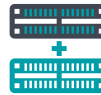
### Qualcomm

Qualcomm QCS6490 high-level platform



### High Speed Memory Down

LPDDR5x on board memory up to 8G



### Multiple Expansions

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



### Rich I/O

2 USB 3.1, 1 GbE LAN, 1 HDMI, 1 Audio Jack,  
1 COM, 8 bit DIO/1 CAN FD



### AMR

Target on AMR, box PC application



## PANEL



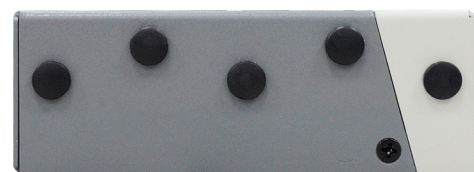
Front View



Rear View



Left View



Right View

## SPECIFICATION

<b>PLATFORM</b>	<b>Platform</b>	ARM
<b>SYSTEM</b>	<b>Processor</b>	QCS6490 Qualcomm® Kryo™ 670, 8 cores, up to 2.7 GHz, 12 TOPS (INT8)
	<b>Memory</b>	LPDDR5x, 4/8GB
<b>GRAPHICS</b>	<b>Display</b>	1 x HDMI Type A, w/audio. 1080P support on Linux.
	<b>Single Display</b>	HDMI
<b>STORAGE</b>	<b>External / Internal</b>	Support UFS 3.1, default 128GB 1 x uSD3.0 card
<b>EXPANSION</b>	<b>Interface</b>	1 x M.2 B key 3052 (USB 3.1/ Opt. USB 2.0) 1 x M.2 E key 2230 (PCIe x1) 1 x Nano SIM slot
<b>ETHERNET</b>	<b>Controller</b>	AX88179A USB3 to GbE controller
<b>LED</b>	<b>Indicators</b>	1 x Status LED
<b>I/O</b>	<b>Ethernet</b>	1 x GbE (RJ-45)
	<b>Serial</b>	1 x RS-232
	<b>USB</b>	2 x USB 3.1 Gen1 Type A
	<b>Display</b>	1 x HDMI 1.4
	<b>WiFi/LTE Antenna</b>	3 x Antenna Holes
	<b>DIO</b>	8 bit DIO (Via Terminal block, Default 6 DIO)
<b>INTERNAL I/O</b>	<b>USB</b>	3 x USB 2.0 (UBJ1/2/4, 1x4P/1.25mm), UBJ4 could option to M.2 B key 1 x USB Type C (Download only)
	<b>Serial</b>	2 x RS-232
<b>POWER</b>	<b>Type</b>	5VDC
	<b>Connector</b>	2 pin Power Jack
	<b>Consumption</b>	<b>Typical:</b> QCS6490: 5V @ 0.6A (3.0Watt) <b>Max.:</b> QCS6490: 5V @ 1.45A (7.25Watt)
<b>OS SUPPORT</b>	<b>Os Support</b>	Ubuntu 20.04 (Linux Kernel 5.4.233)
<b>MECHANISM</b>	<b>Construction</b>	Sheet Metal
	<b>Mounting</b>	DIN Rail Mount
	<b>Dimensions (W x H x D)</b>	145mm x 34mm x 96mm
	<b>Weight</b>	TBD
<b>ENVIRONMENT</b>	<b>Operating Temperature</b>	-20~60°C
	<b>Storage Temperature</b>	-40 to 85°C
	<b>Relative Humidity</b>	10 to 95% RH (non-condensing)
<b>STANDARDS AND CERTIFICATIONS</b>	<b>Shock</b>	<b>Operating:</b> 3G, 11ms <b>Non-Operating:</b> 5G, 11ms
	<b>Vibration</b>	<b>Operating:</b> Random 5~500Hz, IEC68-2-64 (3G) <b>Non-Operating:</b> Sine 10~500Hz, IEC68-2-6 (3G)
	<b>Certification</b>	CE, FCC Class A, UKCA, RoHS