

EPC-R3720

NXP i.MX8M Plus Cortex®-A53 Edge AI RISC-based Box Computer

NEW



Features

- NXP i.MX8M Plus Cortex®-A53 Quad Core 1.6GHz
- On-board LPDDR4 6 GB, 4000MT/s memory
- HDMI up to 3840 x 2160 at 30Hz resolution
- Dual GbE LAN, 1 USB2.0 and 1 USB3.2 Gen 1
- 1 Micro SD Socket & 1 Nano SIM Slot
- 1 mini-PCle for 3G/4G, 1 M.2 2230 Key E Slot
- Yocto Linux and Android
- 4 Kinds of Rear I/O for Each Vertical Focus: IEM, Self Service, Automation and Networking

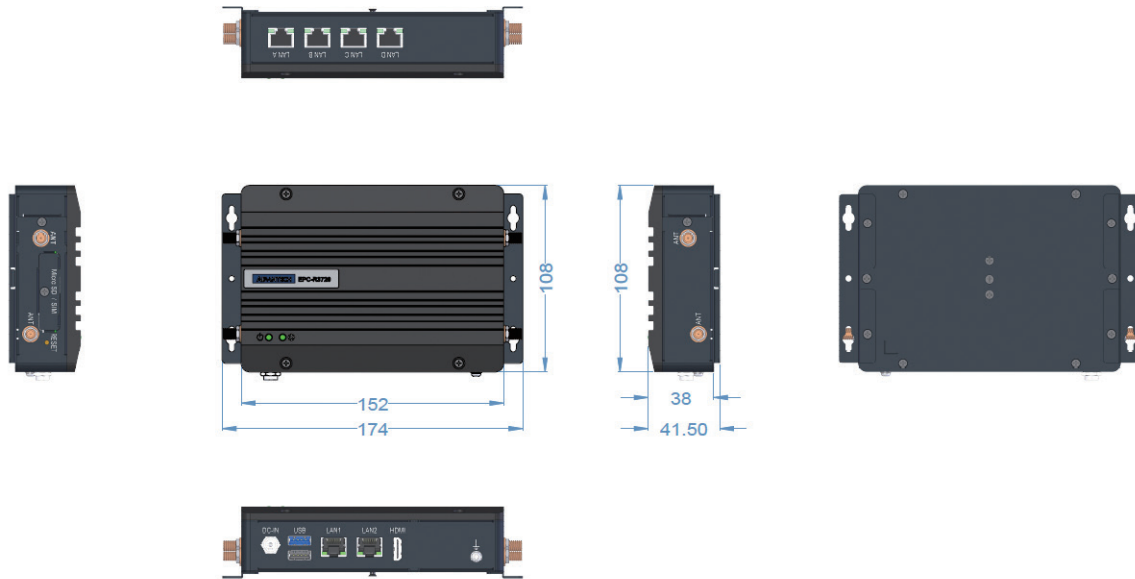


Specifications

Model		EPC-R3720IQ-ALA100	EPC-R3720IQ-ALA120	EPC-R3720IQ-ALA140	EPC-R3720IQ-ALA160
Processor System	CPU	NXP i.MX8M Plus Cortex®-A53 Quad 1.6 GHz			
	Technology	LPDDR4			
Memory	Capacity	6 GB On-board			
	Flash	16 GB On-board eMMC Flash for OS and 8 MB QSPI NOR Flash for board information			
Graphics	HDMI	1 x HDMI 2.0a, up to 3840 x 2160 at 30Hz			
	Graphics Engine	GC7000UL with 2D/3D Graphic Acceleration supporting 1G Pixel/s, OpenVG 1.1, Open GL ES3.1, Vulkan and open CL 1.2 FP			
	H/W Video Codec	Decoder: 1080p60 HEVC/H.265 Main, VP9 Profile 0/2, VP8, AVC/H.264 Baseline/Main/High Encoder: 1080p60 AVC/H.264, HEVC/H.265			
Ethernet	Chipset	NXP i.MX8M Plus integrated RGMII			
	Speed	2 10/100/1000 Mbps			
Watchdog Timer	Watchdog Timer	1~6553s, power on/off 4s			
Front I/O	USB	1 x USB3.2 Gen 1 Type A, 1 x USB 2.0 Type A			
	GbE	2 x RJ45 for GbE			
COM/CAN		1 x DB9 for RS-232/422/485 and 1 x CAN-FD			
Rear I/O		1 x RS-485, 1 x 2 wires RS-232	2 x 2 wires RS-232	2 x 2 wires RS-232	
		4 x DIs, 4 x DOs	1 x GbE, 2 x USB 2.0	1 x CAN Bus 2.0B	4 X GbE (Hub)
Expansion	Full-Size Mini PCIe	1 Full Size Mini-PCIe Slot (USB Signal Only)			
	M.2 Micro	1 M.2 2230 Key E Slot (USB/PCIe/SDIO/UART/I2S)			
	SD Socket	1 Micro SD Socket			
	SIM	1 Nano SIM Slot			
	Antenna Holes	4			
Power	Power Supply Voltage	+12V			
	Power Type	Lockable DC-Jack			
	Power Consumption	9.2W			
Environment	Operating Temperature	-40 ~ 70 °C			
	Operating Humidity	5% ~ 95% relative humidity, non-condensing			
Mechanical	Dimensions	174 x 108 x 25 mm			
	Mounting	Wall mount, DIN Rail mount			
	Weight	750g			
Operating System	Linux	Yocto			
	Android	Android			
Certifications		CE/FCC Class B			

Dimensions

Unit: mm



Ordering Information

Part Number	CPU	Memory	Flash	HDMI	LAN	USB	DI/DO	Serial Port	Micro SD	Nano SIM	CAN	Operating Temperature
EPC-R3720IQ-ALA100	Quad 1.8 GHz	6 GB	16 GB	1	2	2	4/4	1 RS-232, 1 RS-485	1	1	1	-40 ~ 70 °C
EPC-R3720IQ-ALA120	Quad 1.8 GHz	6 GB	16 GB	1	3	4	-	2 RS-232	1	1	1	-40 ~ 70 °C
EPC-R3720IQ-ALA140	Quad 1.8 GHz	6 GB	16 GB	1	2	2	-	2 RS-232	1	1	2 (CAN-FD on front I/O, CANbus on rear I/O)	-40 ~ 70 °C
EPC-R3720IQ-ALA160	Quad 1.8 GHz	6 GB	16 GB	1	6 (2 as independent, and 4 by hub)	2	-	-	1	1	1	-40 ~ 70 °C

Packing List

Part Number	Description
TBD	Wall Mount BKT

Optional Accessories

Part Number	Description
96PSA-A36W12W7-5	ADP A/D 100-240V 36W 12V C6 LOCK DC JACK 62368
1700001524	Power Cord 3P UL 10A 125V 180cm
170203183C	Power Cord 3P Europe (WS-010+WS-083) 183cm
170203180A	Power Cord 3P UK 2.5A/3A 250V 1.83M
1700008921	Power Cord 3P PSE 183cm
1700009652	Power Cord CCC 3P 10A 250V 187cm
EWM-W163M201E	802.11 a/b/g/n/ac,QCA6174A,2T2R,w/BT4.1,M.2 2230
1750008717-01	Dipole Ant. D.B 2.4/5G WIFI 3dBi SMA/M-R BLK
1750007965-01	Antenna Cable R/P SMA (M) to MHF4, 300mm
EWM-C117FL06E*	LTE 4G,3G WCDMA/DC-HSPA+, 2G module, MPC1-L280H
1750007990-01	Antenna 4G/LTE full band L=11 cm 50 Ohm
1750006009	Antenna Cable SMA (F) to MHF 1.32 25cm

*Please contact us for suggesting suitable cellular module for your region

Front I/O

