

AIR-055

AI Inference System Based on Qualcomm® Dragon Wing IQ9075M



Features

- Compact and high performance Edge AI box up to 100 TOPS AI computing
- Qualcomm® Dragon Wing IQ9075M built-in
- 12~24V wide power and -20~60 °C wide temp. supported
- Multiple IO ports: 2 x 2.5G LAN, DIO, 3x COM, 2x CAN, 2x USB 3.2 and 2x USB type C, 2x MIPIC-C
- Support various expansions 1x M.2 2280(NVME), 1x M.2 2230(WIFI/BT) and 1x M.2 3052(LTE/5G)

Preliminary Specification

Specifications

Model		AIR-055
Processor Module	Qualcomm® Dragon Wing Series	IQ-9075M
	CPU	Qualcomm® Kryo™ Gen 6 CPU built on Arm v8.2 Cortex technology
	GPU	Adreno 663 GPU support safe GPGPU compute up to 840 MHz
	AI Performance Reference	Up to 100 dense / 200 sparse INT8 TOPS
	TDP	60W
	Memory	36GB 256-bit LPDDR5 DRAM
Ethernet	Storage	128GB UFS3.1
	Interface	2x RJ-45
	PHY	Realtek RTL8221D
Display	Speed	2.5 Gigabit Ethernet (10/100/1000/2500 Mbps, optional PoE support)
	HDMI	2x HDMI 1.4 (Max. resolution 3840 x 2160 @ 60Hz)
IO Ports	DP	2x DP 1.4 (Max. resolution 3840 x 2160 @ 60Hz)
	USB	1x USB 3.2 Gen2 Type A (Download Mode Support)
		1x USB 3.2 Gen1 Type A
		2x USB 3.2 Gen1 Type C
		2x USB 2.0
	CANBus	2x DB9
	DI/DO	8 bit
Expansion	COM	3 x RS-232/RS-422/RS-485
	Audio	3.5mm Headphone out/MIC Combo Jack
	M.2	1x M.2 3052 B Key(5G/LTE), 1x M.2 2230 E Key(WIFI/BT)
Others	MIPI-C	2x MIPI-C(MIPI CSI D PHY 4x signal for each)
Storage	TPM	TPM2.0
Power	M.2 2280	1 x M.2 2280 M Key(NVME)
	Power Supply voltage	12~24V
Environment	Power Type	ATX/AT mode, ATX default
	Operational Temperature	-20 ~ 60°C with non-POE
	Operating Humidity	-20 ~ 50 °C with POE
	Vibration	95% @ 40 °C (non-condensing)
Mechanical	Dimensions (W x D x H)	3 Grms @ 5 ~ 500 Hz, random, 1 hr/axis
	Weight	190 x 174 x 60 mm
	Mounting Support	TBD
Operating System	Linux	Wall mounting
Software Support	Software API	Ubuntu
Certifications	EMC/Safety	Edge AI SDK compatible
		CE/FCC Class B, CB, UL, CCC and BSMI (No RED Certificate)