APPLIED INTELLIGENCE

QUALCOMM IQ9 SERIES

APEX-A100



HIGHLIGHT FEATURES

- Powered by Qualcomm Dragonwing™ IQ-9075
- Up to 100 TOPS AI computing power at low power consumption
  128GB UFS 3.1 | 36GB memory | 2 x 2.5GbE | 2 x DP 1.2 | 3 x M.2 | 1 x COM | 1 x CAN FD
- Fanless design, supporting -40˚C to 70˚C (Ta)
- Accelerates AGV, AMR, and VLM applications at the edge
- Chipset longevity through 2038

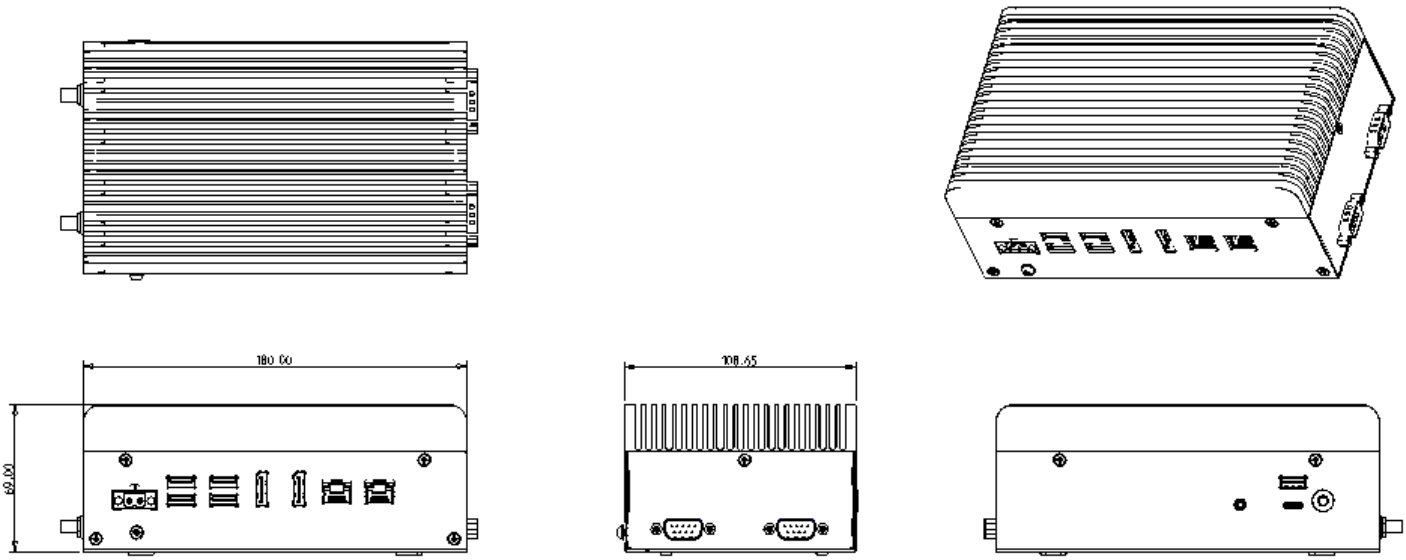
SPECIFICATIONS

Platform	CPU	Qualcomm Dragonwing™ IQ-9075 SoC
	Max. Frequency	2.36GHz
	Module Form Factor	COM-HPC Mini
AI accelerator	AI Engine	100 TOPS (Dense) / 200 TOPS (Sparse) via 2 × Hexagon Tensor Processor
Memory	Technology / Socket	LPDDR5X
	Max. Capacity	36GB (BGA populated)
Storage	UFS 3.1	128GB (pre-installed)
Graphics	Controller	Adreno 663
Displays	DP 1.2 (4K@60Hz)	2
Ethernet	LAN (2.5G)	2
Expansion	M.2 2242 / 2280 M Key	1 (PCIe Gen 4 ×4)
	M.2 3052 B Key	1 (USB 3.2 Gen 2)
	M.2 2230 E Key	1 (PCIe Gen 4 ×2 , USB 2.0)
External I/O	COM	1 (RS232/422/485, default RS232)
	USB 3.2 Gen 2 ×1 (10Gbps)	3
	USB 3.2 Gen 2 ×1 (10Gbps) Type-C	1 (OTG support)
	USB 2.0	2
	Buttons	1 × Power
	Audio (Cirrus Logic WM8904)	Line-out × 1
	CAN FD	1
Power	Power Input Voltage	DC 9V-36V (12V@2.6A)
Environment	Operating Temperature	-40°C ~ 70°C
	Storage Temperature	-40°C ~ 95°C
	Operating Humidity	95% at 40˚C relative humidity, non-condensing
	Operating Vibration	3 Grms, IEC 60068-2-64, random, 5Hz ~ 500Hz, 1hr/axis
	Operating Shock	30 Grms, IEC 60068-2-27, half sine, 11ms duration
Security	TPM 2.0	TPM2.0
Miscellaneous	LED Indicator	1 × Power LED
Physical Characteristics	Dimensions (L x W x H)	180 × 108.65 × 69 mm
	Net Weight / Gross Weight (KG)	1.7 / TBD
Operating System	Operating System	Yocto Linux (Kernel 6.6); Ubuntu 24.04 (Kernel 6.8)
Regulation	Safety	CE / FCC Class B

ORDER INFO.

P/N	Description
EXOC-Q911-00A1-W1	Edge AI System, Qualcomm QCS9075, 128G UFS, 36G LPDDR5, DC 9V-36V, -40˚C ~70˚C (APEX-A100-Q91)

MECHANICAL DRAWING



PACKING LIST

Part Number	Description	Q'ty
EXOC-Q911-00A1-W1	Edge AI System, Qualcomm QCS9075, 128G UFS, 36G LPDDR5, DC 9V-36V, -40˚C ~70˚C (APEX-A100-Q91)	1
9Z9000000220	Adapter, 100V-240V, 12V, 60W, 2P Phoenix Header	1
7AOBIXE111S1	ID Wall Mount Bracket	2
7SW3M4080PSN1	M4 Screws for Wall Mount	4
7SW1M3070PSN1	M3 Screws for Wall Mount	4
7AMA05000HXXXU02	M.2 Slot Standoff, M2*3 x 4.0mm	3
7SW1M2025ISN1	M2 Screws for M.2 Slots	2

OPTIONAL ACCESSORIE

P/N	Description
7W8000000070	Power Cord (UK), Standards 1.8m
7W8000000080	Power Cord (EU), Standards 1.8m
7W8000000090	Power Cord (US), Standards 1.8m
7W8000000160	Power Cord, Standards(CN) 1.83m

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