APPLIED INTELLIGENCE

QUALCOMM IQ9 SERIES



EXEC-Q911

HIGHLIGHT FEATURES

- Powered by Qualcomm Dragonwing QCS9075
- Provides up to 100 TOPS of AI processing performance at low power
- Accelerates AGV, AMR, and LLM applications at the edge with unparalleled performance
- 128GB UFS 3.1 storage, up to 36GB onboard memory
- Dual 2.5G Ethernet, dual 4-lane MIPI CSI-2
- Longevity: Chipset supported through 2038

SPECIFICATIONS

Model Name	**EXEC-Q911**	
Module Form Factor	COM-HPC Mini	
CPU	Qualcomm Dragonwing™ IQ-9075 SoC (Octa-core Kryo Gen 6 : 8x Kryo Gold Prime @2.36GHz)	
Graphics	Adreno 663 GPU	
Memory	36GB LPDDR5X	
Storage	128GB UFS 3.1	
AI Engine	100 TOPS (Dense) / 200 TOPS (Sparse) via 2 x NPU Hexagon Tensor Processor	
Expansion Slots	M.2 2242/2280 M Key	1 (PCIe Gen 4 x4)
	M.2 3052 B Key	1 (USB 3.2 Gen 2)
	M.2 2230 E Key	1 (PCIe Gen 4 x2 , USB 2.0)
MIPI	MIPI CSI-2	2 x 4-lane MIPI CSI-2 (22pin, P : 0.5, on module)
Ethernet	LAN	2 x 2.5GbE RJ45
Display	DP1.2	2
	eDP	1
Audio	LINE Out	Phone Jack 3.5mm
	AMP Out	Wafer (1 x 4)
External I/O	USB 3.2 Gen 2 x1 (10Gbps)	3
	USB 3.2 Gen 2 x1 (10Gbps) Type-C	1 (OTG support)
	USB 2.0	2
	Buttons	1 x Power
	Power Connector	Pluggable Terminal Block, P: 5.08mm, female, 2pin
Internal I/O	Debug Port (UART)	1 (1 x 3, P : 2.54, 3.3V)
	EDL Jumper	1 (1 x 3, P : 2.0)
	CPU Fan Connector	1 (1 x 4, P : 2.54, for PWM Contorl, 12V)
	eDP	1 (40pin, P : 0.5)
	eDP Power Jumper	1 (2 x 3, P : 2.0)
	GMSL Power	1 (1 x 4, P: 2.0, 12V 3A)
	GPIO	8 (1 x 10, P : 1.0, 0.5A VCC, GND)
	SPI	1 (1 x General SPI on 12-pin header, P:2.0, 3.3V)
	I2C	2 (1 x I2C on module, P:1.0, 3.3V ; 1 x I2C on 12-pin header, P:2.0)
	CAN FD	1 (1 x 3, P : 2.0)
	COM	2 (1 x 9 P : 1.0, on module, 1 x 9 P : 1.0, on carrier board, RS232 / 422 / 485)
	USB 2.0	1 (1 x 8, P : 1.0, support 1 x USB2.0)
	Boot Mode Select	1 (Toggle Switch, 4 Poles)
	SIM Slot	Nano SIM (4FF)
Power	Power Input Voltage	DC 9-36V (12V@2.6A)
	RTC Battery	CR2302 Coin Cell
Security	TPM2.0	
OS Support	Yocto Linux (Kernel 6.6); Ubuntu 24.04 (Kernel 6.8)	

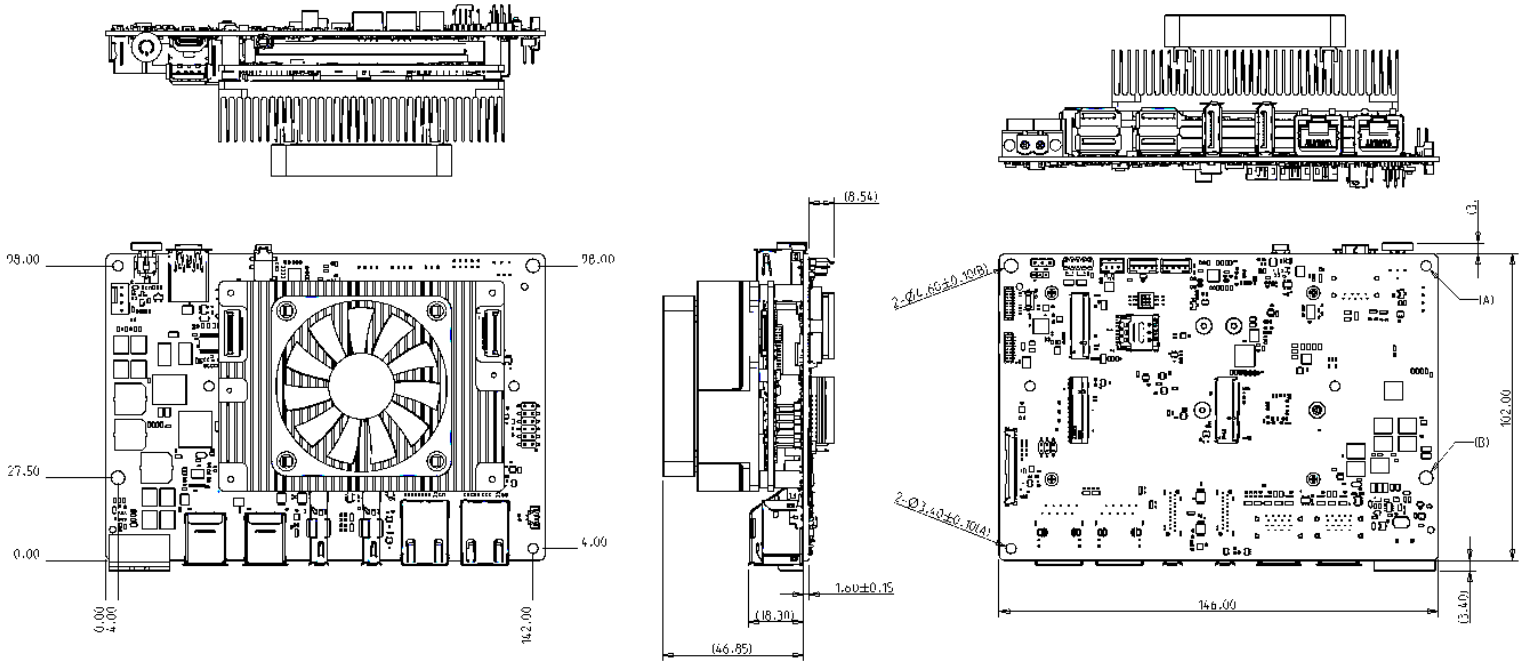
Other Features	• Fan Supply : PWM Speed Control for CPU Fan on Carrier Board • System Monitoring : CPU Temperature, CPU Fan, Module Voltage, Current	
Environment	Temperature	Operating : -40°C ~ 85°C (Ta) Storage : -40°C ~ 95°C (Ta)
	Humidity	Operating & Storage : 5% to 95%, Non-condensing
	Vibration (Operating)	3G, IEC 60068-2-64, Random Vibration, 5 ~ 500Hz, 1hr/axis
	Shock (Operating)	30G, IEC 60068-2-27, Half Sine, 11ms Duration
	ESD	EN61000-4-2, Air-15kV, Contact-8kV
Certification	CE / FCC Class B	
Weight	Net Weight (g)	393
	Gross Weight (g)	1180
Dimensions (L x W x H)	146 x 102 x 56.99 mm	
Note		

ORDER INFO.

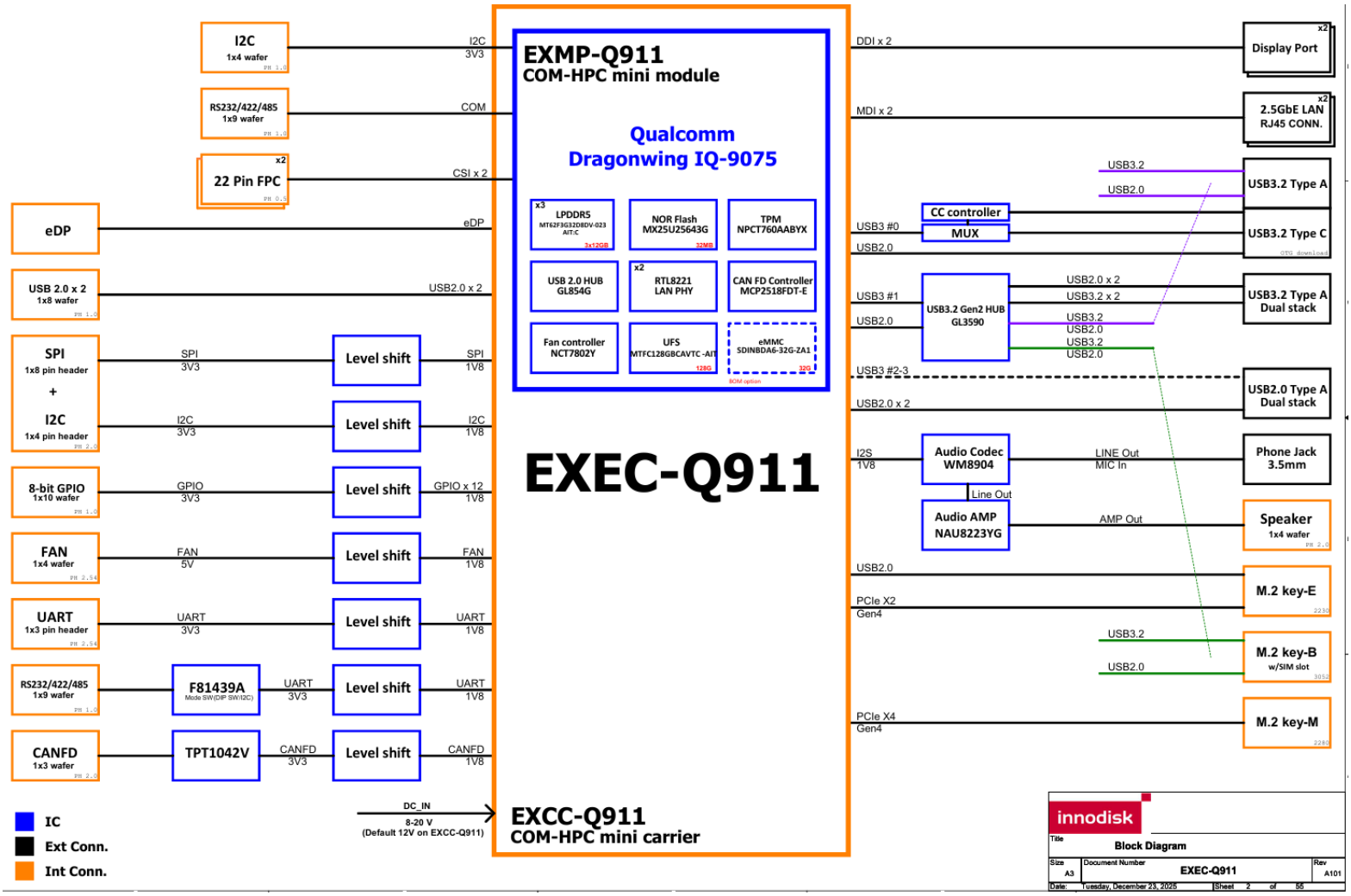
P/N	Description
EXEC-Q911-00A1-W1	COM-HPC Mini Starter Kit, Qualcomm IQ-9075, 128G UFS, 36G LPDDR5, DC 9-36V, -40 ~85°C

MECHANICAL DRAWING

Carrier Board with Com-HPC Mini Module



BLOCK DIAGRAM



PACKING LIST

Part Number	Description	Q'ty
EXEC-Q911-00A1-W1	COM-HPC Mini Starter Kit, Qualcomm IQ-9075, 128G UFS, 36G LPDDR5, DC 9-36V, -40 ~85°C	1
9Z9000000220	Adapter, 100-240V, 12V, 60W, 2P phoenix header	1
7W7000000130	FFC Cable 150mm	2
7W5000000051	Speaker Cable Speaker*2 230+100mm	1
7W6000000580	D-SUB(F) Cable 150mm	1
7W6000000790	CAN FD Cable 100mm	1
7W2000000230	USB 2.0 A-TYPE(F)*2 300mm	1
7W6000000560	D-SUB(M) Cable 100mm	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
EV2M-OOM1-UHCA-E1	MIPI CSI-2 2.3MP Fixed Focus Camera Module
EV8M-OOM1-RHCF-11	MIPI CSI-2 8MP Fixed Focus Camera Module
EVDM-OOM1-RHCF-11	MIPI CSI-2 13MP Fixed Focus Camera Module
7W7000000120	FFC Cable 70mm
7W7000000130	FFC Cable 150mm
EB022-2M4F-14	MIPI CSI-2 22-pin x2 to GMSL2 IPEX FAKRA Z x4 Adapter Board
7W3000001600	4-Pin Power Cable 200mm
EVDF-OOM1-RHCF-31	GMSL2 13MP Fixed Focus Camera Module (Requires EB022-2M4F for operation.)
EGPL-G401-C1	M.2 2280 to four GbE LAN Module
EGPL-G101-C1	M.2 to Single GbE LAN module
EGPL-G104-C1	M.2 2230 to single isolated GbE LAN horizontal module
EGPL-T102-C1	M.2 2280 to single 10GbE LAN Module
EGP2-X401-W1	M.2 to 4 x RS232/422/485 module
EGP2-X403-W1	M.2 2242 to 4 x RS232 module
EGPC-B201-W1	M.2 to dual CANbus 2.0B WT
EGPC-B1S1-W1	M.2 to single CANbus 2.0B WT
EGUC-F2S3-W1	M.2 2280 to dual isolated CAN FD

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