



Target Applications

The Dragonwing IQ-9075 EVK enables developers to evaluate the industrial-grade performance of the Dragonwing IQ-9075 processor for prototype IoT solutions, including:

- Industrial Automation
- Robotics
- Autonomous Mobile Robots
- Drones
- On-Device AI
- Unmanned Aerial Vehicles (UAVs)

Features

AI Model Development and Prototyping

Create, test, and optimize AI models for compute, smart vision, language processing, and machine learning applications with the [Qualcomm® AI Hub](#) and its support for frameworks like ONNX Runtime, TensorFlow Lite, and PyTorch.

Robotics and Industrial Automation

Build proof of concepts for autonomous mobile robots, unmanned aerial vehicles, drones, industrial machinery, and agricultural robotics with real-time, on-device AI decision making and execution.

Multi-Sensor and Camera Fusion

Design multi-sensor and camera systems with real-time sensor fusion technology for surveillance, object detection, navigation, predictive maintenance, quality control, and process automation.

High-Performance Edge Computing

Facilitate the development of edge AI solutions for industrial IoT, smart cities, retail, work/site safety, smart buildings, and healthcare.

Ordering Information

Part Number

EVK-IQ9075M-STARTER-1.2

Specifications

Processor	Dragonwing IQ-9075 (See more here)
Operating System	Ubuntu, Upstream Linux with Yocto Support
Memory	36 GB LPDDR5 with link ECC
Storage	128 GB UFS
PCIe/Connectivity	Wi-Fi/Bluetooth: M.2 module with connector on mainboard PCIe: 1x PCIe4 slot or expansion (switched), 1x m.2 E key (Wi-Fi) or expansion (switched)
Display	• 2x mini-DP (one with MST) • DSI flex connection (display not included)
Camera	4x MIPI CSI (C/D-PHY) flex connectors
USB	• USB Type C (host or device mode) • USB Type C (host mode) • USB 2.0 (host or device mode)
Audio	• 1x I2S mic • 2x I2S speaker amps • Additional I2S on GPIOs
Video	• Encode: up to 2x 4K60 (concurrent) or 1x 4K170 • Decode: up to 4x 4K60 (concurrent 2x 4K60) or 1x 4K275 with support for AV1, HEVC, H.264, H.265
Ethernet	RJ45 (2.5 GbE)
CAN	1x CAN-FD on LS expansion
Other I/Os on Mezzanine Connectors (1.8 V)	• 2x UART (RX/TX), 1x UART (RX/TX/CTS/RFR), 1x SAIL_UART (RX/TX) • 1x SAIL_SPI (CS0), 1x SAIL_SPI (CS0, CS1) • 5x I2C, 3x CCI_I2C, 1x SAIL_I2C • 44x SOC GPIO, 30x PMIC GPIO (After using above listed QUPs, I2S) • 6x QUP (LO/1), 3x QUP (LO-3), 1x QUP (L2/3), 1x QUP (QSPI), 1x QUP (LO-3, CS0, CS1)
TPM	ST33HTPH2x32AHE4 on mainboard
Sensors	IMU: ICM-42688
Debug/UI	FTDI
Thermal Management	Heatsink and fan
Power	DC barrel plug (20V)
Size	106 x 106 x 56 mm
Operating Temperature	-20°C to 70°C
Other Parts Included in Kit	Power supply and adapter included

Specifications are subject to change.

To learn more visit: [qualcomm.com](https://www.qualcomm.com)



©2026 Qualcomm Technologies, Inc. and/or its affiliated companies. All Rights Reserved. Qualcomm branded products are products of Qualcomm Technologies, Inc. and/or its subsidiaries. Qualcomm and Qualcomm Dragonwing are trademarks or registered trademarks of Qualcomm Incorporated.