

D6Sigma Edge-AI IoT Box



Product Overview

Edge-AI IoT Box is an industrial automation solution built on Visteon's CognitoAI™ IoT platform and Qualcomm Dragonwing™ IQ9 Series processors. This delivers real-time intelligence by transforming multiple camera feeds into actionable operational insights, enabling manufacturers to enhance quality, maximize uptime, and improve workplace safety. With GenAI-powered video analytics running directly on the device for fleet-scale device management, the platform provides a unified, production-ready edge AI ecosystem. This robust foundation empowers manufacturers to move beyond isolated AI pilots and rapidly scale intelligent, data-driven industrial operations.



Key Features

★ - in pipeline



Machine Stoppage Detection



PPE & Safety Compliance



People Counting & Zones



Gesture-based Help Requests



End-of-line Visual Inspection



VLM Root Cause Analysis



NoCode AI ML Ops



Vision Guided Robotics



End-of-Line Robotic Assembly



Material Flow Intelligence



Over-the-Air Software Updates



Guardrails for Safer Robotic Cells

Technical Specification

Processor	Qualcomm Dragonwing IQ-9075
CPU Cores	8 CORE KYRO Gen 6 GOLD PRIME - 230 KDMIPS ARMV8.2 Architecture
Threads	8 Threads 1 Thread per core
Turbo Frequency	CPU Freq - 2.36GHZ GPU
Operating System	Ubuntu, QLI
Memory Type	LPDDR5
RAM Memory	24 GB
Memory Speed	6400MT/s
ECC Support	Yes
Flash Storage	UFS 3.1 - 128 GB
Integrated Graphics	QC Adreno 663 1.2 T-FLOPS
NPU	100 TOPS (INT8 DENSE)
Ethernet	2x 2.5 GBPS
Wi-Fi	W-Fi 6E
Bluetooth	BT 5.3
USB	2x USB3.1(Type C) , 4x USB2.0 (Type A)
Expansion	M.2 E Key Slot for BT/WiFi M.2 M Key Slot for Storage M.2 B key for Modem
UART	3x DB9 (RS232/422/485)
Camera	1x Ethernet 4x GMSL 2x MIPI CSI
Video Output	2x DP, 1x HDMI
Video Input	1x HDMI
Microphones	1x Analog
Audio Output	1x Stereo Line
CAN	8x CANFD
SIM	1x Nano SIM Slot
Mounting	Standard Rock Mount, Shelf Mount, Wall Mount, Din-Rail Mount
Power	12 ~ 24V
Certifications	UL/CE/FCC Class B/CCC, IEC 62443-4-2 AOC
Thermal Control	Air Cooling

Mechanical Specification



Augmenting AI for Industrial IoT

A Broad, Open Catalog of Use Cases
towards Solutions!