HMI Solutions

Compact Vision 5 Dragonwing IQ-2390

5.0" HMI based on Qualcomm Dragonwing™ IQ-2390 Processors

Bring intelligence directly to the operator interface with a compact, connected industrial HMI



HIGHLIGHTS

CPU
Qualcomm Dragonwing™ IQ-2390 Processors

CONNECTIVITY
RS232; RS485; CAN; USB-C; GbE; Wi-Fi/BT

GRAPHICS
5.0" (800x480), MIPI-DSI interface

MEMORY
Up to 4 GB RAM; up to 32 GB eMMC

Powered by Qualcomm Dragonwing

Clea OS

Qualcomm branded products are products of Qualcomm Technologies, Inc. and/or its subsidiaries.

MAIN FIELDS OF APPLICATION

- Coffee & Vending
- Medical
- Digital Signage
- Industrial Automation

FEATURES

Processor	**Qualcomm Dragonwing™ IQ-2390 Processors:** 1x Arm Cortex-A78 @1.9GHz + 3x Arm Cortex-A55 @1.8GHz 1.1 TOPS NPU
Memory	Up to 4 GB RAM
Video Interfaces	MIPI-DSI interface
Video Resolution	5.0" (800x480)
Graphics	3D GPU (MH3.0 10.9) 73.6 GFLOPs (FP16)
Mass Storage	Up to 32 GB eMMC Micro SD slot
Networking	1 GB Ethernet Wi-Fi 5/6 Bluethooth 5./5.4
USB	1x USB-C 3.2 1x USB-C 2.0
Audio	Buzzer on board Audio in and out

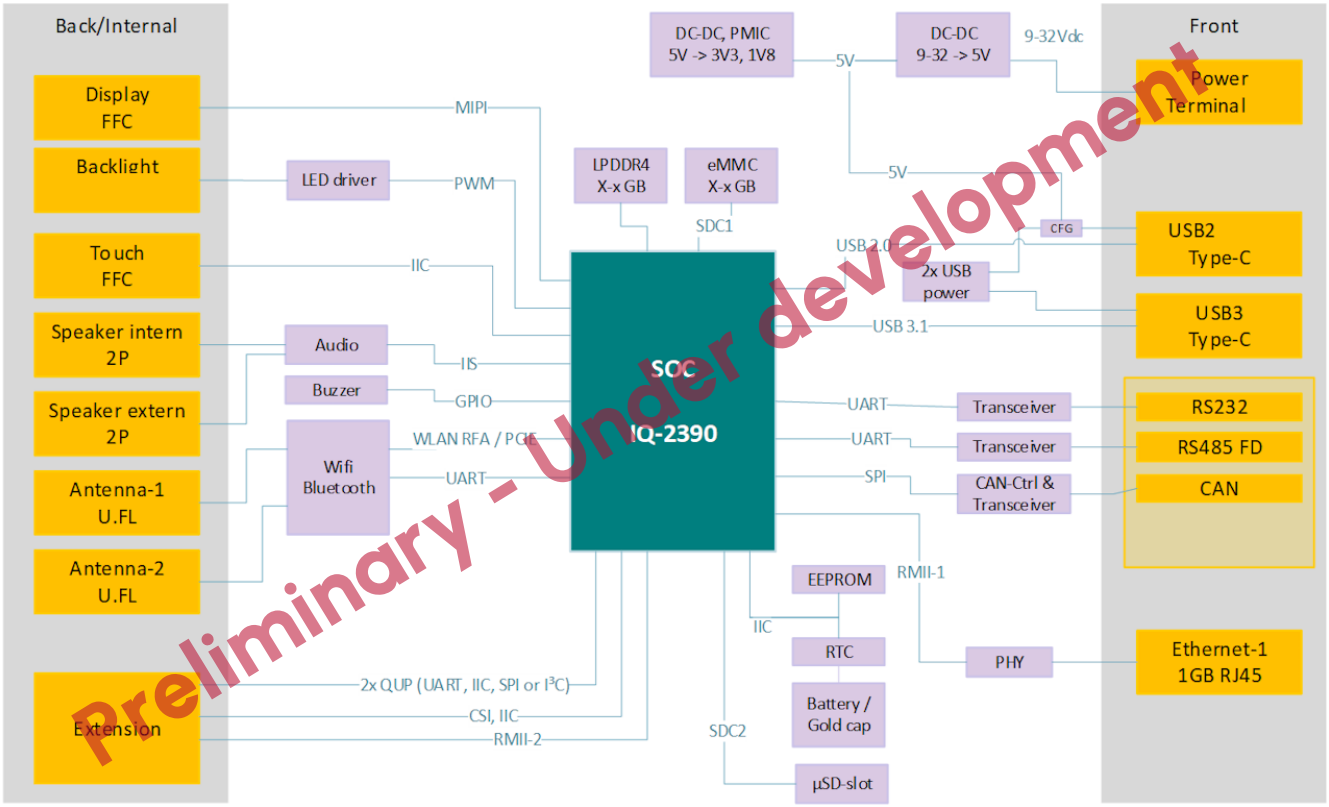
Serial Ports	RS232 RS485 CAN
Norms & Standards	CE, FCC, UL (planned)
Power Supply	9 to 32 VDC input range; optional via USB-C
Operating System	Clea OS
Operating Temperature*	Commercial Temperature Range : 0° ÷ +60°C Industrial Temperature Range (planned) : -25° ÷ +70°C
Dimensions	145.5 x 102.4 x 33.4 mm (subject to change)
Security	TPM 2.0

*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.

Information subject to change. Please visit www.edgeseco.com to find the latest version of this datasheet

BLOCK DIAGRAM

Preliminary Blockdiagram - Under development



Preliminary - Under development

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Build, Deploy and Maintain Secure Edge Products at Scale.

The secure framework for industrial edge devices, combining fleet operations, cybersecurity, data orchestration and Edge AI enablement.

Fleet Operations at Scale

Manage and monitor distributed device fleets.

Cybersecurity by Design

Zero-trust architecture, secure lifecycle management and CRA support.

Secure OS with LTS

A secure Yocto-based foundation with OTA updates, container runtime and long-term maintainability.

Edge AI Enablement

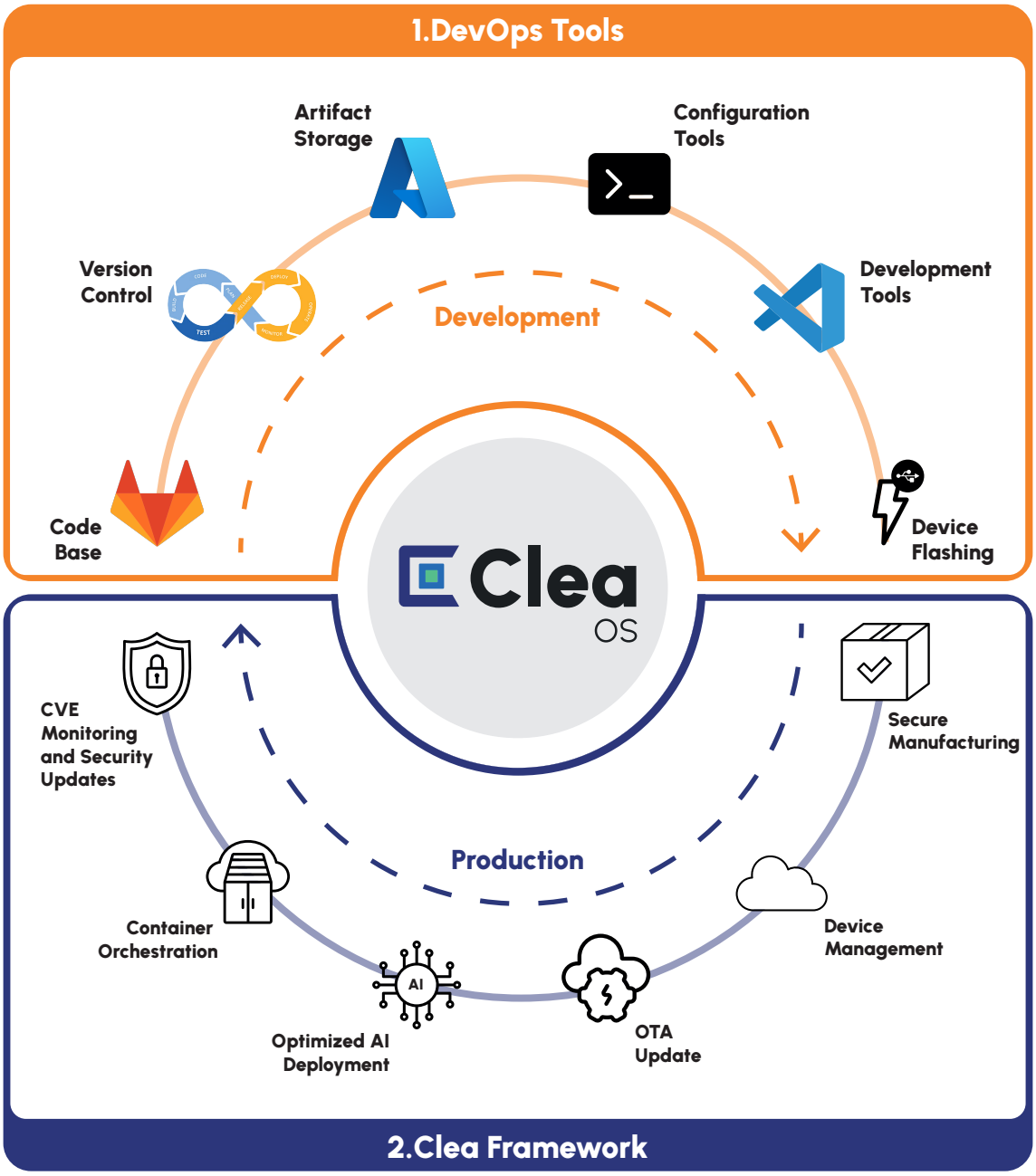
Deploy and manage hardware-aware AI services at the edge

Hardware & Cloud Agnostic

Run on ARM, x86, cloud or on-prem infrastructures.

From Development to Operations

Clea supports the entire product lifecycle, from embedded software development and deployment to fleet operations, maintenance and continuous updates.



Discover how Clea enables secure fleet operations, data orchestration and Edge AI at scale on **clea.ai**

Clea