



## SOM-SMARC-QCS5430

SMARC® 2.1.1 module powered by Qualcomm® Dragonwing™ QCS5430 processor

**SMARC® module for high performance low power applications powered by the Dragonwing QCS5430 processor**



### HIGHLIGHTS



**CPU**  
Qualcomm® Dragonwing™ QCS5430 processor



**CONNECTIVITY**  
2x Gigabit Ethernet



**AI ACCELERATOR**  
Embedded AI accelerator (Up to 9 INT8 TOPS)



**MEMORY**  
LPDDR5-6400 up to 12GB

Available in Industrial Temperature Range



SMARC  
module



Qualcomm  
Dragonwing



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

### MAIN FIELDS OF APPLICATION



Medical



Safety &  
Surveillance



Industrial  
Automation



Digital Signage

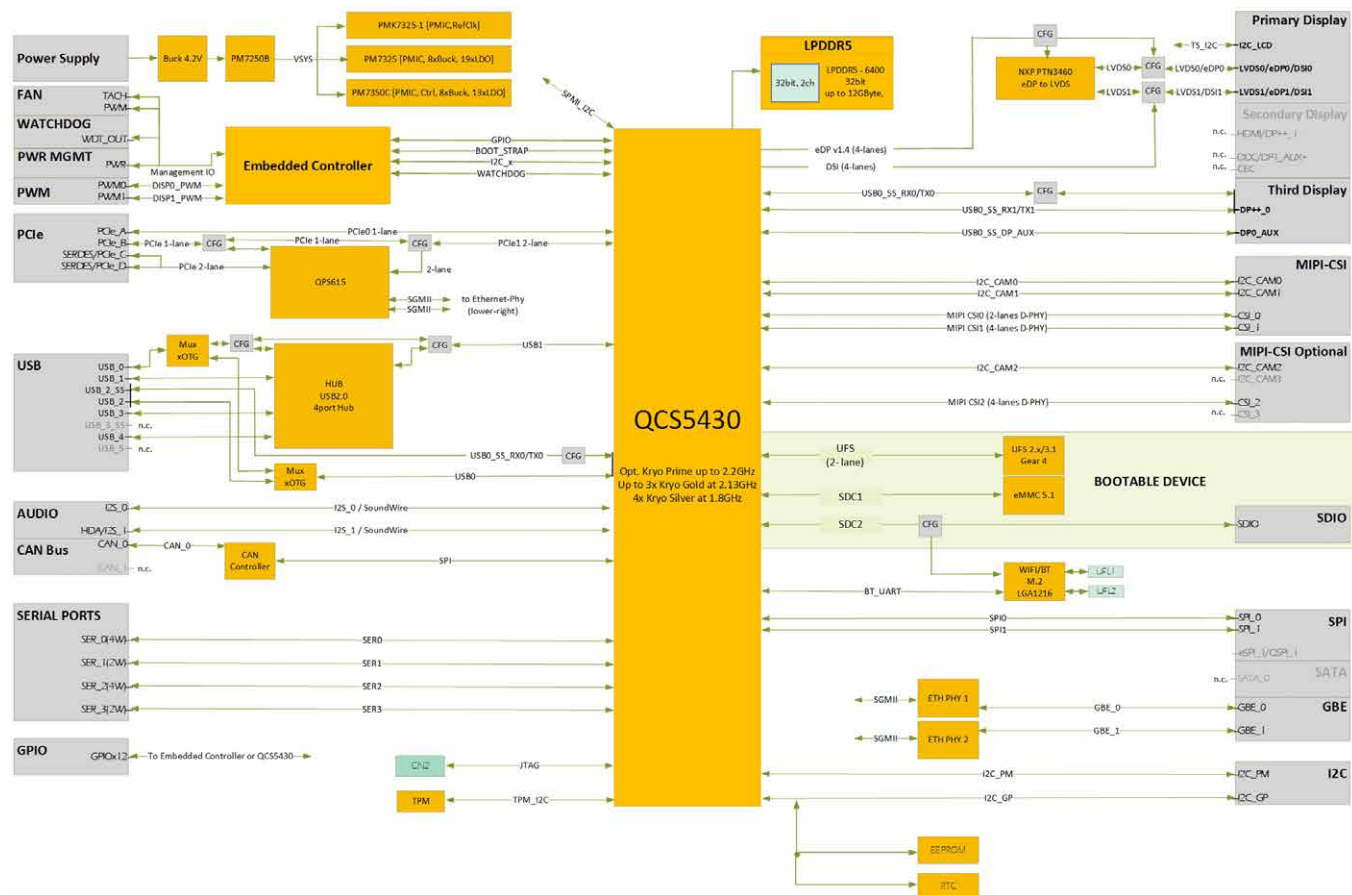
### FEATURES

Processor	Qualcomm® Dragonwing™ QCS5430 FPI/FP2: Opt. Kryo Prime core up to 2.2GHz Up to 3x Kryo Gold cores @ 2.13GHz 4x Low-Power Kryo Silver Cores @1.8GHz	Serial Ports	2x UART (RX/TX/RTS/CTS), 2x UART (RX/TX)
Memory	Embedded AI accelerator AI-cDSP up to 9 INT8 TOPS	CAN Bus	1xCAN via SPI
Video Interfaces	Soldered-down LPDDR5-6400 memory, up to 12GB total, 32-bit interface 2 channels	Other Interfaces	I2C Ultra Low Power RTC 2xPWM
Video Resolution	LVDS dual channel 18/24 bit, eDP V1.4, MIPI DSI 4 lanes, Display Port through USB 3.1 Type C	Security	Optional TPM 2.0 on-board
Graphics	Primary display: FHD+ @120 fps Secondary display: up to 4k Ultra HD @60Hz	Embedded Controller Functionalities	FAN Watchdog Power Management I/O Signals
Mass Storage	Qualcomm Adreno™ 642L GPU	Power Supply	5V DC (+5V Standby opt)
Networking	eMMC 5.1 drive soldered on-board, up to 64GB (boot device) SD 4-bit interface (boot device) Opt. UFS 2.x/3.1 flash	Operating System	Microsoft Windows 11 IoT Enterprise Yocto (Linux 64 Bit) Android
USB	2x Gigabit Ethernet interfaces Opt. Wi-Fi + BT5.0	Operating Temperature*	0 to +60°C (Commercial Range) -30 to +85°C (Industrial Range)
PCI-e	1x USB 3.1, 1x USB 2.0 OTG, 1x USB 2.0 or 4x USB 2.0 (Hub option)	Dimensions	82 x 50 mm
Camera Interface	PCIe lanes Gen3: 2 ports x1 lanes, 1 port x2 lanes (QPS615)	*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.	
Audio	2x 4-Line MIPI CSI, with ISP support		
	2x I2S		

**SOM-SMARC-QCS5430**

SMARC® 2.1.1 module powered by Qualcomm® Dragonwing™  
QCS5430 processor

### BLOCK DIAGRAM



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

# Streamline and expedite your edge computing implementations

## Clea OS

A flexible operating system that adapts to your needs, thanks to the customization tool and Docker support. Reliability and security are built-in through a dual-partition system and native integration with Exein's robust AI-based protection.

## Clea Astarte

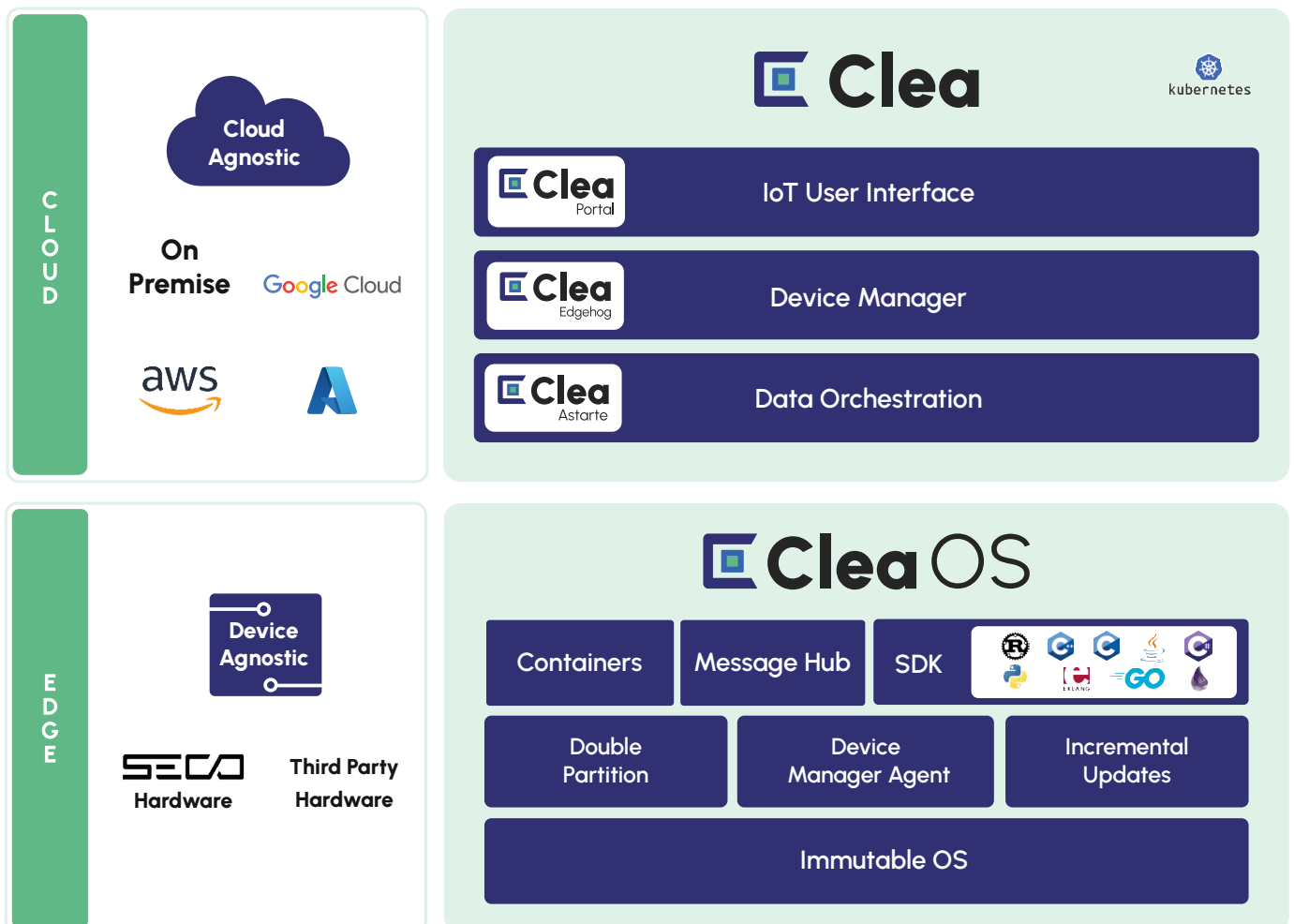
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

## Clea Edgehog

Update, configure, and manage remote devices. Optimize time and costs to maximize operational efficiency and security without the need for costly field interventions.

## Clea Portal

Analyze data from remote devices, customize the user experience with applications tailored to user needs, and manage user rights, company access, and tenant privileges.



Scan to know more about our solution

Clea OS



Clea DOCS

