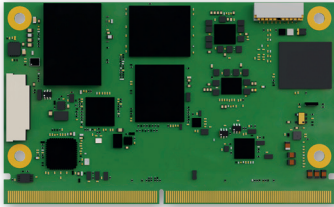




SOM-SMARC-QCS5430

SMARC® 2.1.1 module with Qualcomm® QCS5430 Processor

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



HIGHLIGHTS

| | |
|--|--|
| CPU QCS5430 processor | CONNECTIVITY 2x Gigabit Ethernet |
| GRAPHICS FHD+ Qualcomm® Adreno™ 642L | MEMORY LPDDR5-6400 up to 12GB |

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION



Medical



Safety & Surveillance



Industrial Automation



Digital Signage

FEATURES

| | | | |
|------------------|---|--|--|
| Processor | 2x Arm® Cortex®-A78 @2.4 GHz, 4x Arm® Cortex®-A55 | Other Interfaces | I2C Ultra Low Power RTC 2xPWM |
| Memory | Soldered-down LPDDR5-6400 memory, up to 12GB total, 32-bit interface 2 channels | Security | Optional TPM 2.0 on-board |
| Video Interfaces | LVDS dual channel 18/24 bit, eDP V1.4, MIPI DSI 4 lanes, Display Port through USB 3.1 Type C | Embedded Controller Functionalities | FAN Watchdog Power Management I/O Signals |
| Video Resolution | Primary display: FHD+ @120 fps Secondary display: up to 4k Ultra HD @60Hz | Power Supply | 5V DC (+5V Standby opt) |
| Graphics | Qualcomm® Adreno™ 642L | Operating System | Microsoft Windows 11 IoT Enterprise Yocto (Linux 64 Bit) Android |
| Mass Storage | 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 Temperature* | 0 to +60°C (Commercial Range) -30 to +85°C (Industrial Range) |
| Networking | 2x Gigabit Ethernet interfaces Opt. Wi-Fi + BT5.0 | Dimensions | 82 x 50 mm |
| USB | 1x USB 3.1, 1x USB 2.0 OTG, 1x USB 2.0 or 4x USB 2.0 (Hub option) | *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. | |
| PCI-e | PCIe lanes Gen3: 2 ports x1 lanes, 1 port x2 lanes (QPS615) | | |
| Camera Interface | 2x 4-Line MIPI CSI, with ISP support | | |
| Audio | 2x I2S | | |
| Serial Ports | 2x UART (RX/TX/RTS/CTS), 2x UART (RX/TX) | | |
| CAN Bus | 1xCAN via SPI | | |

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DATA ORCHESTRATION

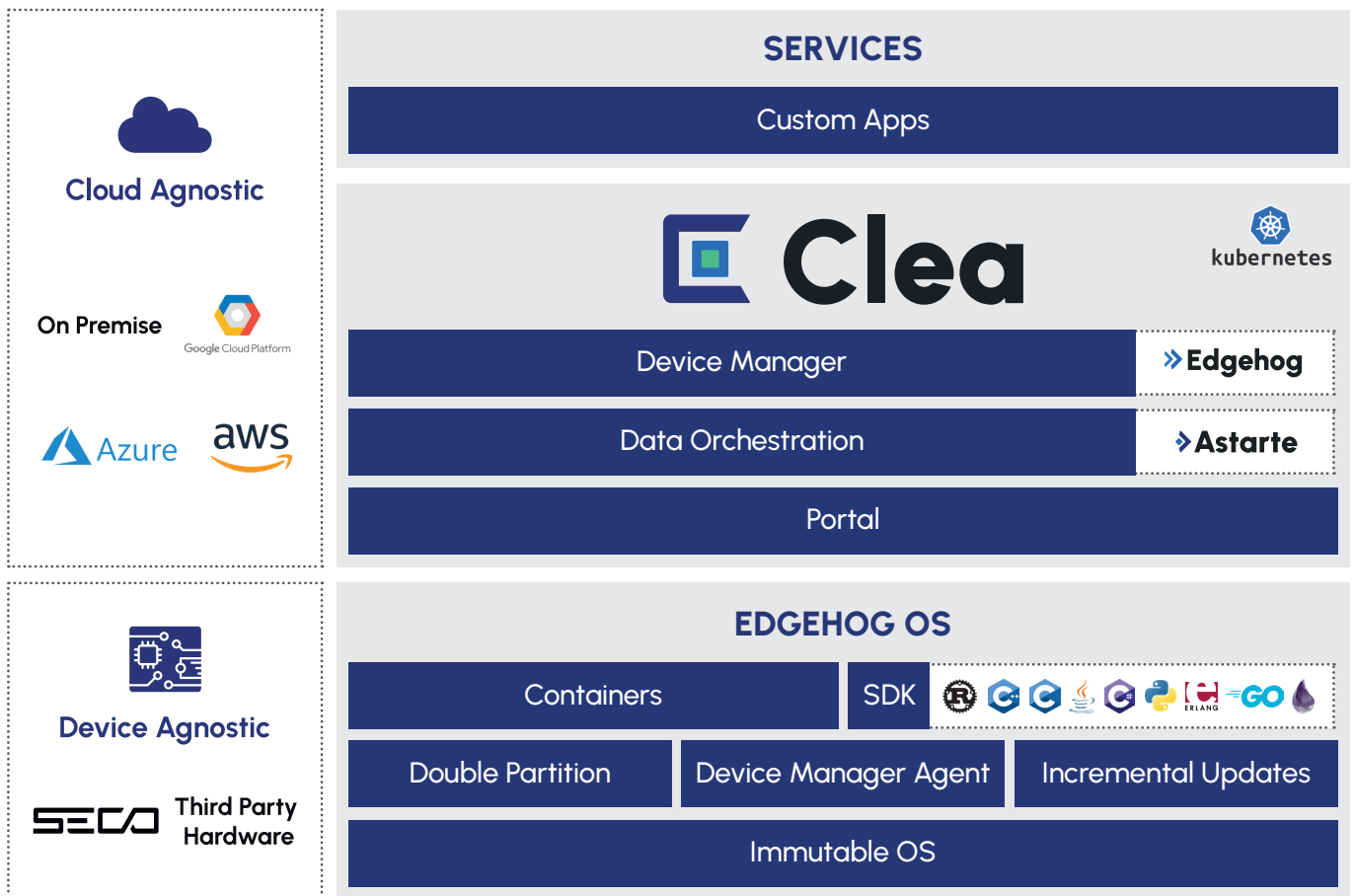
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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PORTAL

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CLEA DOCS

