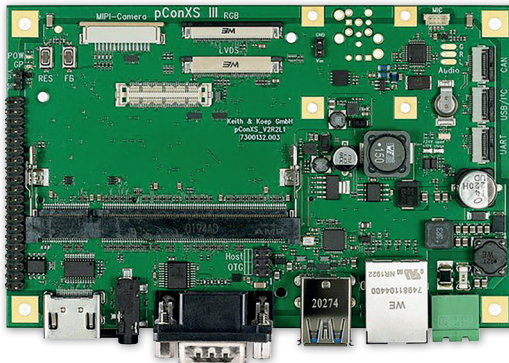




Carrier-Trizeps-pConXS-III

SODIMM 200 Carrier Board for SOM-Trizeps

Multifunctional and compact SODIMM 200 Carrier Board which supports the complete functions of the SOM-Trizeps Computer on Module



HIGHLIGHTS

- Supports a wide range of interfaces, such as Gbit Ethernet, USB 3.0, camera, audio
- HDMI®, LVDS or dual LVDS, RGB interfaces enable easy integration of various touch displays
- i-MOD extension connectors allow additional interfaces to be added easily and cost-effectively
- Mini PCIe half/full size card socket, nano SIM card socket

Available in Industrial Temperature Range

MAIN FIELDS OF APPLICATION



Coffee & Vending



Medical



Transportation



Industrial Automation



Smart Devices



Smart Buildings & Smart Cities



Digital Signage



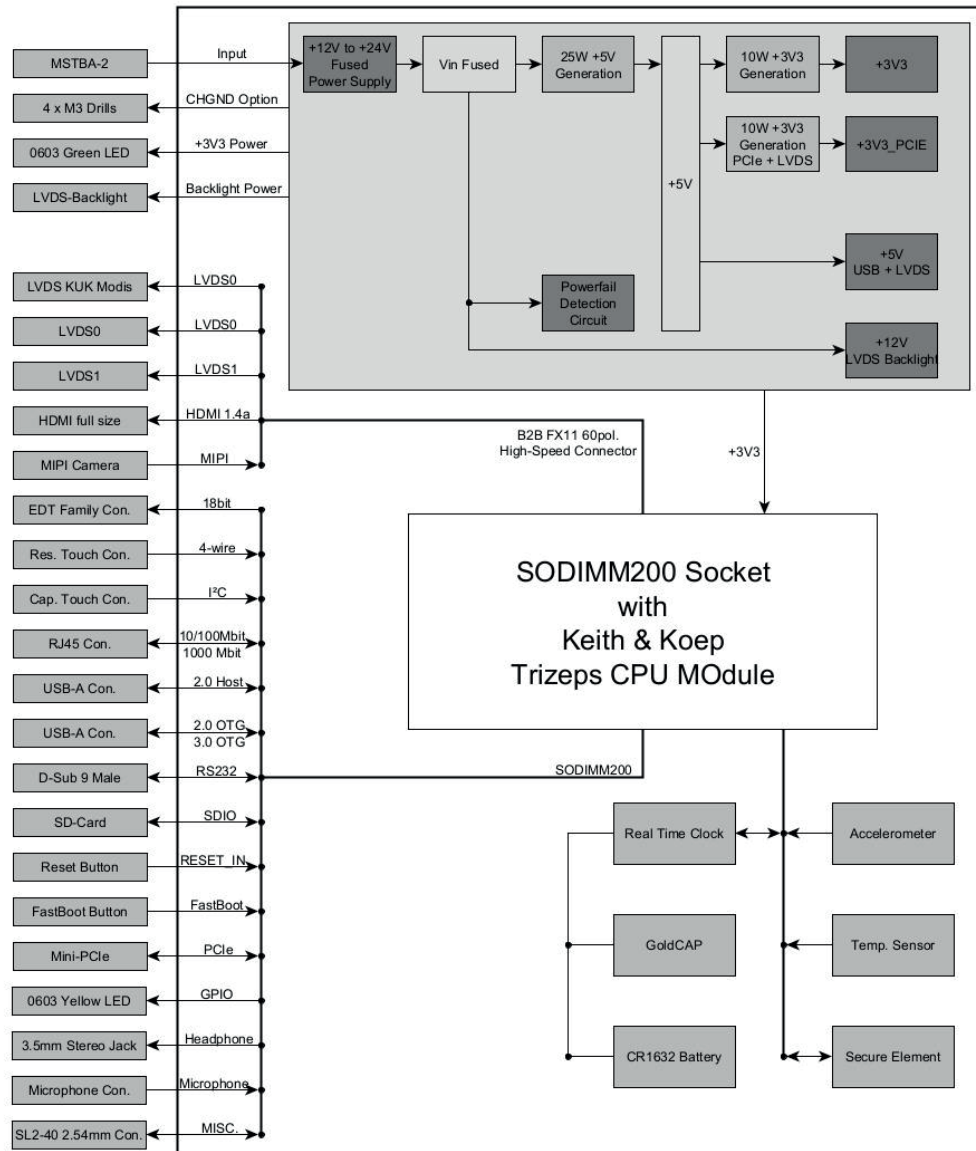
Energy & Utilities

FEATURES

Processor	Depends on compatible SOM-Trizeps - NXP i.MX 6 Quad, Dual, DualLite, Solo, SoloX Arm® Cortex A9 up to 1.0 GHz on SOM-Trizeps-VII-MX6 - NXP i.MX 8M Arm® Cortex A53 up to 1.5 GHz, up to Quad Core, integrated Arm® Cortex M4 on SOM-Trizeps-VIII-MX8M - NXP i.MX 8M Mini Arm® Cortex A53 up to 1.8 GHz, up to Quad Core, integrated Arm® Cortex M4 on SOM-Trizeps-VIII-MX8M-Mini - NXP i.MX 8M Plus Arm® Cortex A53 up to 1.8 GHz, up to Quad Core, integrated Arm® Cortex M7 on SOM-Trizeps-VIII-MX8M-Plus - NXP i.MX 8M Nano Arm® Cortex A53 up to 1.5 GHz, up to Quad Core, integrated Arm® Cortex M7 on Trizeps VIII Nano SOM	Audio	3.5 mm stereo audio head-phone jack SL2-40 pin header: stereo headphone (16R and 32R), speaker (Mono, 8R), Lineln, microphone
Mass Storage	SD card socket	Serial Ports	RS232 D-Sub i-MOD FFC connectors: UART SL2-40 pin header: UART
Networking	Wireless functionalities depend on Trizeps SOM: - SOM-Trizeps-VII-MX6: Onboard WiFi/BT module, IEEE 802.11 a/b/g/n/e/i/h/d/k/r/w, +18 dBm, 72 Mbps (20 MHz) and up to 150 Mbps (40 MHz), BT 3.0+ EDR - SOM-Trizeps-VIII-MX8M and SOM-Trizeps-VIII-MX8M-Mini/MX8M-Plus: Onboard WiFi-BT module, WiFi 2.4GHz/5GHz, 802.11 a/b/g/n/ac 2x2 MU-MIMO / BT 5.0	Other Interfaces	Realtime Clock with Backup Cap or battery LED digital temperature sensor reset and user tactile switch powerfail detection MIPI camera connector analog BNC / Mini BNC parallel camera interface (optional) 2x CAN via i-MOD FFC connector or SL2-40 pin header i-MOD FFC connectors: I2C, resistive Touch SL2-40 pin header: Power, GPIOs (1x with PWM), SPDIF (out and in), SDIO, I2C, 3x ADC
USB	1x USB 3.0 OTG and 1x USB 2.0 Host via USB A connectors, 3x USB 2.0 Host via internal connectors	Power Supply	Industrial +12 up to +24V supply
PCI-e	Mini PCIe Half-/Full Size card edge connector, combined with nano SIM card slot	Operating System	Depends on compatible Som-Trizeps Linux Yocto Linux Debian Android Windows 10 IoT
Video Interfaces	LVDS (KuK Modis Standard), Dual-LVDS, 18 Bit parallel RGB display port, HDMI® (with Trizeps VII, Trizeps VIII, Trizeps VIII Plus), capacitive touch, resistive touch	Operating Temperature*	-20 ÷ 85°C
		Dimensions	133.0 x 93.5 x 25.0 mm

*All carrier board components must remain within the operating temperature at any and all times, including start-up; carrier operating temperature is independent of the module installed. Please refer to the specific module for more details. Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system.

BLOCK DIAGRAM



Streamline and expedite your edge computing implementations

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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.

DATA ORCHESTRATION

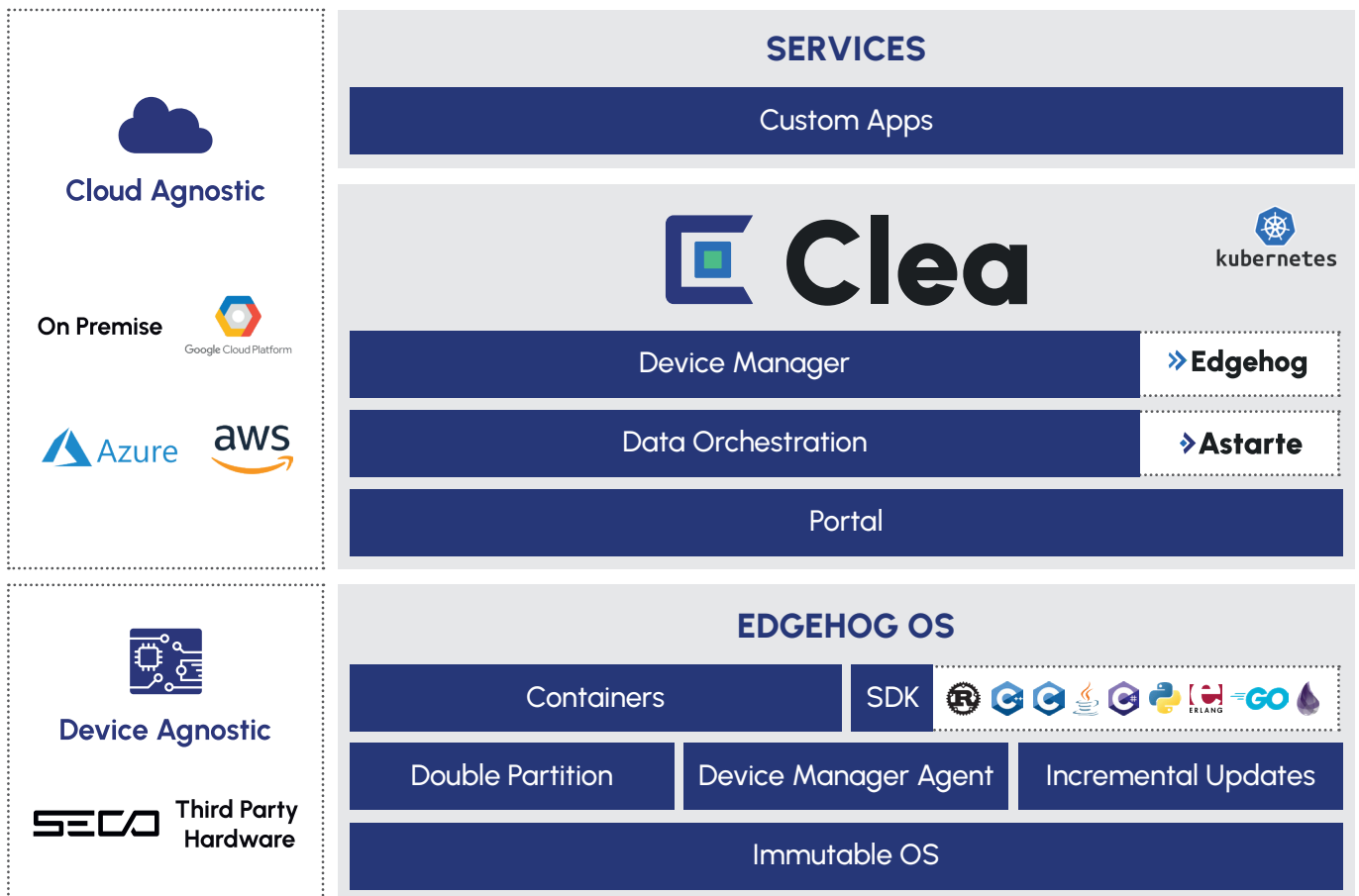
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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PORTAL

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



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EDGEHOG OS



CLEA DOCS

