

TRIZEPS SODIMM SOM

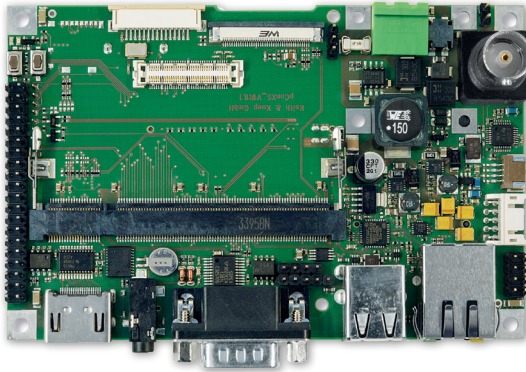
CARRIER BOARDS



Carrier-Trizeps-pConXS

Carrier Board for Trizeps SODIMM SOMs

Carrier Board for Trizeps VII, Trizeps VIII, Trizeps VIII Mini, Trizeps VIII Nano and Trizeps VIII Plus SOMs



HIGHLIGHTS

- Supports a wide range of interfaces, such as Gbit Ethernet, USB 2.0, camera, audio
- HDMI®, LVDS or Dual LVDS, RGB interfaces enable easy integration of various touch displays
- Extension Connector allows additional interfaces to be added
- 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

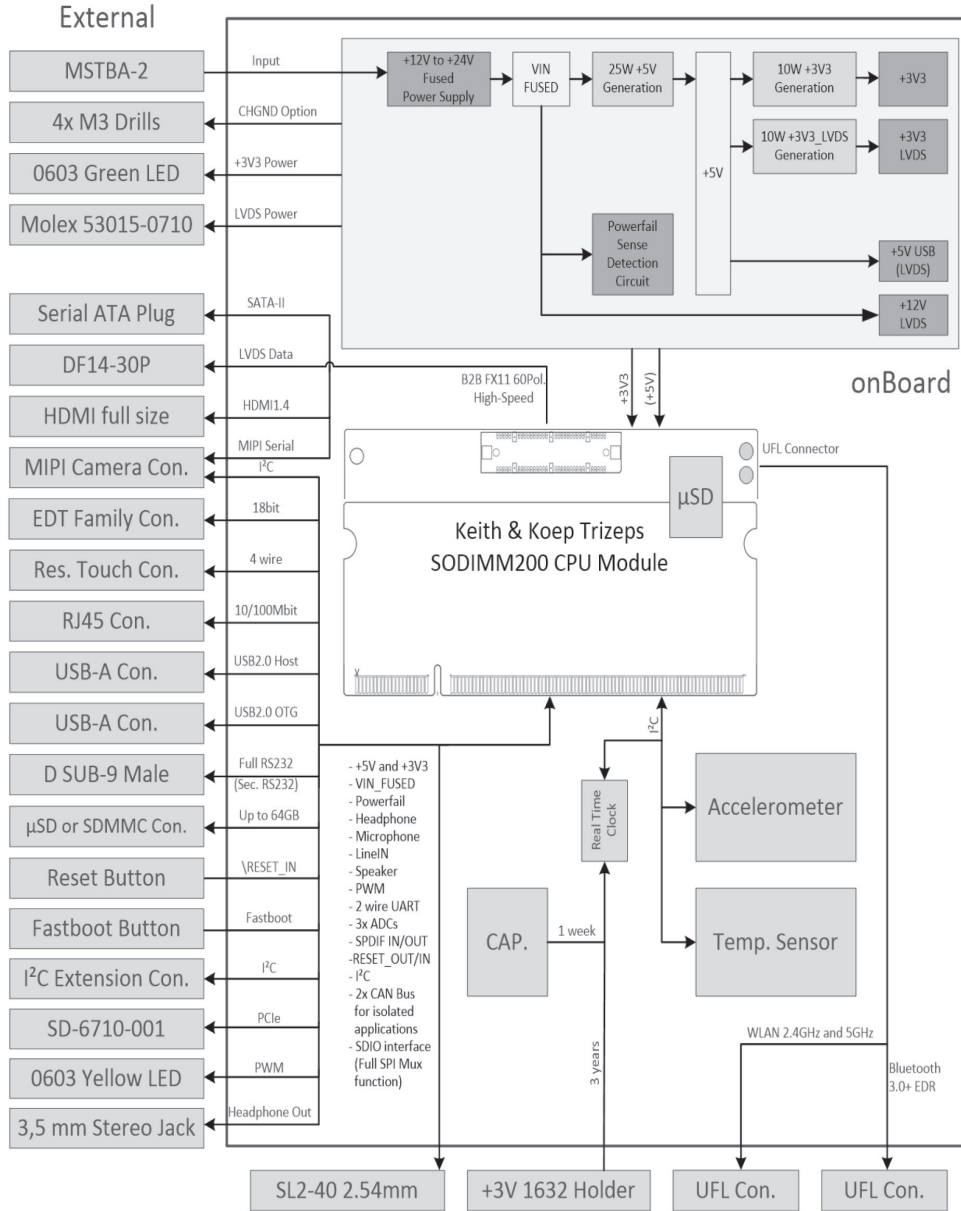
FEATURES

Processor	Defined by compatible Trizeps SODIMM SOMs <ul style="list-style-type: none"> • NXP i.MX 6 Quad, Dual, DualLite, Solo, SoloX Arm® Cortex A9 up to 1.0 GHz on Trizeps VII SOM • NXP i.MX 8M Arm® Cortex A53 up to 1.5 GHz, up to Quad Core, integrated Arm® Cortex M4 on Trizeps VIII SOM • NXP i.MX 8M Mini Arm® Cortex A53 up to 1.8 GHz, up to Quad Core, integrated Arm® Cortex M4 on Trizeps VIII Mini SOM • 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 • NXP i.MX 8M Plus Arm® Cortex A53 up to 1.8 GHz, up to Quad Core, integrated Arm® Cortex M7 on Trizeps VIII Plus SOM 	<table border="1"> <tr> <td data-bbox="812 1227 957 1279"> Serial Ports </td> <td data-bbox="957 1227 1479 1279"> RS232 via D-SUB SL2-40 pin header: 2x UART </td> </tr> <tr> <td data-bbox="812 1279 957 1480"> Other Interfaces </td> <td data-bbox="957 1279 1479 1480"> 4 wire resistive touch interface, Realtime Clock with Backup Cap or battery, LED, 3-Axis 12-bit/8-bit digital accelerometer, temp. sensor, SATA II connector, I2C extension header, reset and user tactile switch, powerfail detection, analog BNC / Mini BNC parallel camera interface, MiPi camera connector 1x 40-pin extension connector: GPIOs (1x with PWM), SPDIF (out and in), 2x CAN, SDIO, I2C, 3 x ADC </td> </tr> <tr> <td data-bbox="812 1480 957 1532"> Power Supply </td> <td data-bbox="957 1480 1479 1532"> Industrial +12 up to +24V supply </td> </tr> </table>	Serial Ports	RS232 via D-SUB SL2-40 pin header: 2x UART	Other Interfaces	4 wire resistive touch interface, Realtime Clock with Backup Cap or battery, LED, 3-Axis 12-bit/8-bit digital accelerometer, temp. sensor, SATA II connector, I2C extension header, reset and user tactile switch, powerfail detection, analog BNC / Mini BNC parallel camera interface, MiPi camera connector 1x 40-pin extension connector: GPIOs (1x with PWM), SPDIF (out and in), 2x CAN, SDIO, I2C, 3 x ADC	Power Supply	Industrial +12 up to +24V supply
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Mass Storage	SD Card Socket	<table border="1"> <tr> <td data-bbox="812 1552 957 1626"> Operating System </td> <td data-bbox="957 1552 1479 1626"> Linux Yocto Linux Debian Android Windows 10 IoT </td> </tr> </table>	Operating System	Linux Yocto Linux Debian Android Windows 10 IoT				
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Networking	10/100/1000 Mbit Ethernet RJ45 Connector Wireless functionalities depend on Trizeps SOM: <ul style="list-style-type: none"> • Trizeps VII: Onboard WiFi BT Modul, 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 • Trizeps VIII and Trizeps VIII Mini: Onboard WiFi-BT module, WiFi 2.4GHz/5Ghz, 802.11 a/b/g/n/ac 2x2 MU-MIMO / BT 5.0 	<table border="1"> <tr> <td data-bbox="812 1603 957 1680"> Operating Temperature* </td> <td data-bbox="957 1603 1479 1680"> -20 ÷ 85°C </td> </tr> <tr> <td data-bbox="812 1680 957 1731"> Dimensions </td> <td data-bbox="957 1680 1479 1731"> 118.5 mm x 84.0 mm x 43.0 mm </td> </tr> </table> <p>*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.</p>	Operating Temperature*	-20 ÷ 85°C	Dimensions	118.5 mm x 84.0 mm x 43.0 mm		
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USB	USB2.0 Host, USB2.0 OTG, USB2.0 touch interface, USB2.0 Header							
PCI-e	Mini PCIe Half-/Full Size card edge connector, combined with nano SIM card slot							
Video Interfaces	RGB, LVDS, Dual LVDS, HDMI® (with Trizeps VII, Trizeps VIII, Trizeps VIII Plus)							
Audio	3.5mm Stereo Jack, Digital Microphone Connector SL2-40 pin header: stereo headphone (16R and 32R), speaker (Mono, 8R), Lineln, microphone							

Carrier-Trizeps-pConXS

Carrier Board for Trizeps SODIMM SOMs

BLOCK DIAGRAM



Streamline and expedite your edge computing implementations

EDGEHOG 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.

DATA ORCHESTRATION

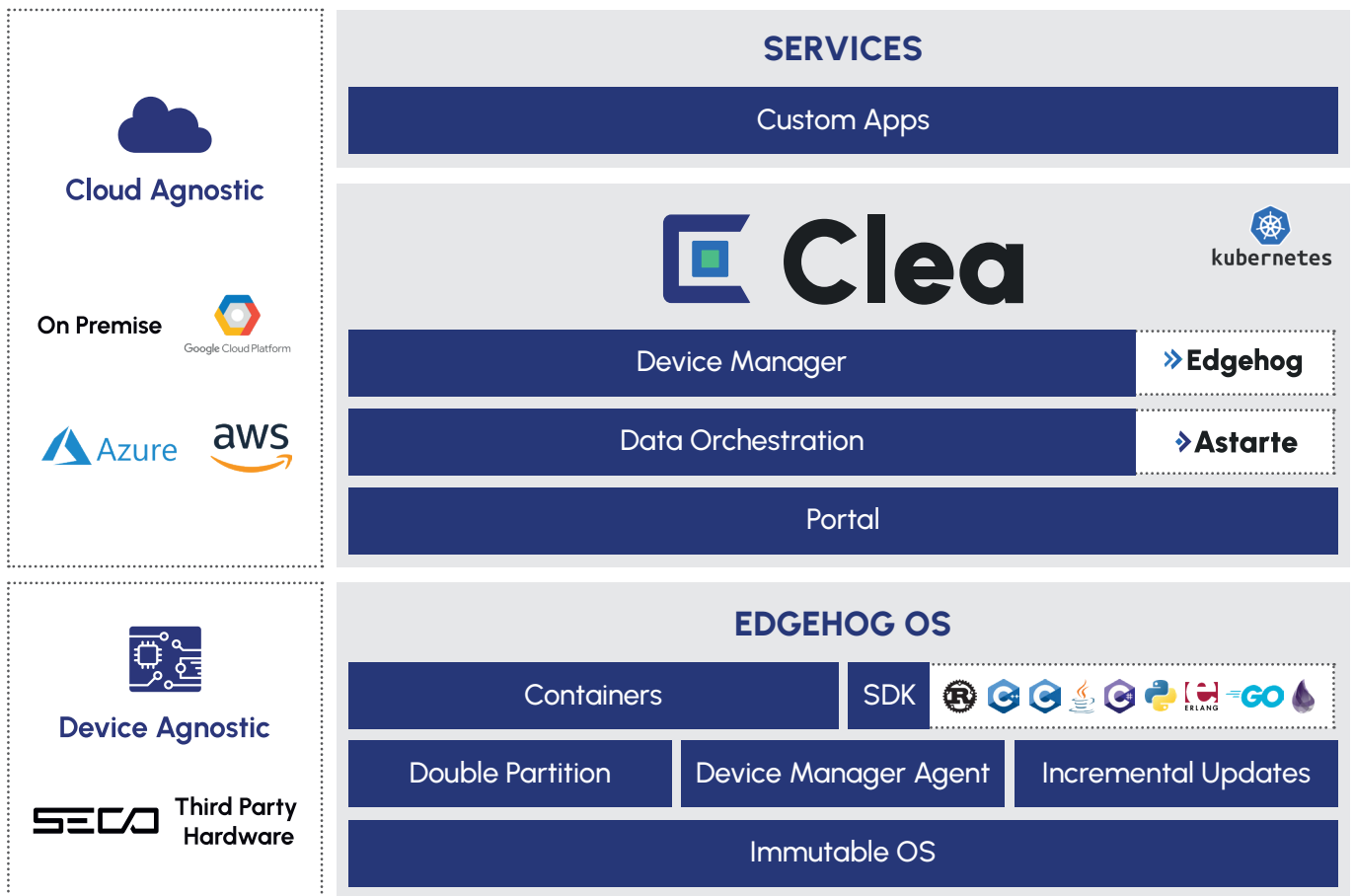
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

DEVICE MANAGER

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

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

EDGEHOG OS



CLEA DOCS

