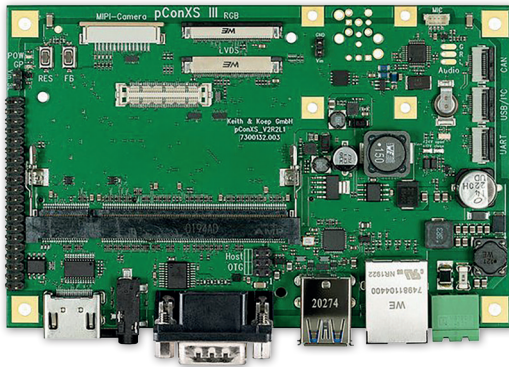




Carrier-Trizeps-pConXS-III

SODIMM 200 Carrier Board for Trizeps SOMs

Multifunctional and compact SODIMM 200 Carrier Board which supports the complete functions of the Trizeps VII and Trizeps VIII Nano/Mini/Plus SOMs



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

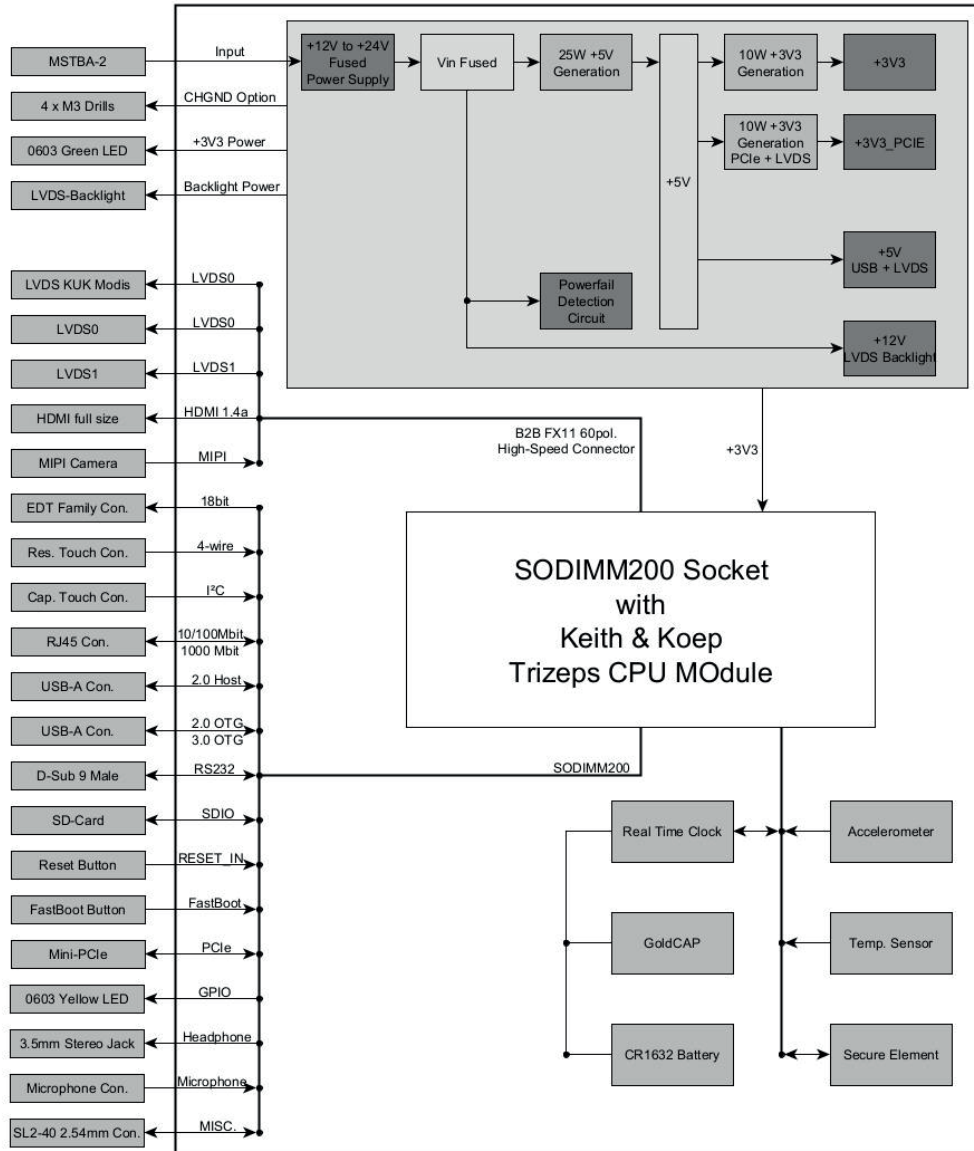


Energy & Utilities

FEATURES

Processor	<p>Depends on compatible Trizeps SODIMM 200 SOMs</p> <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 	<p>Serial Ports</p> <p>RS232 D-Sub i-MOD FFC connectors: UART SL2-40 pin header: UART</p>
Mass Storage	<p>SD card socket</p>	<p>Other Interfaces</p> <p>Realtime Clock with Backup Cap or battery LED 3-Axis 12-bit/8-bit digital accelerometer 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</p>
Networking	<p>Wireless functionalities depend on Trizeps SOM:</p> <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/Plus: Onboard WiFi-BT module, WiFi 2.4GHz/5GHz, 802.11 a/b/g/n/ac 2x2 MU-MIMO / BT 5.0 	<p>Power Supply</p> <p>Industrial +12 up to +24V supply</p>
USB	<p>1x USB 3.0 OTG and 1x USB 2.0 Host via USB A connectors, 3x USB 2.0 Host via internal connectors</p>	<p>Operating System</p> <p>Linux Yocto Linux Debian Android Windows 10 IoT</p>
PCI-e	<p>Mini PCIe Half-/Full Size card edge connector, combined with nano SIM card slot</p>	<p>Operating Temperature*</p> <p>-20 ÷ 85°C</p>
Video Interfaces	<p>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</p>	<p>Dimensions</p> <p>133.0 x 93.5 x 25.0 mm</p>
Audio	<p>3.5 mm stereo audio head-phone jack SL2-40 pin header: stereo headphone (16R and 32R), speaker (Mono, 8R), LinIn, microphone</p>	<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>

BLOCK DIAGRAM



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DATA ORCHESTRATION

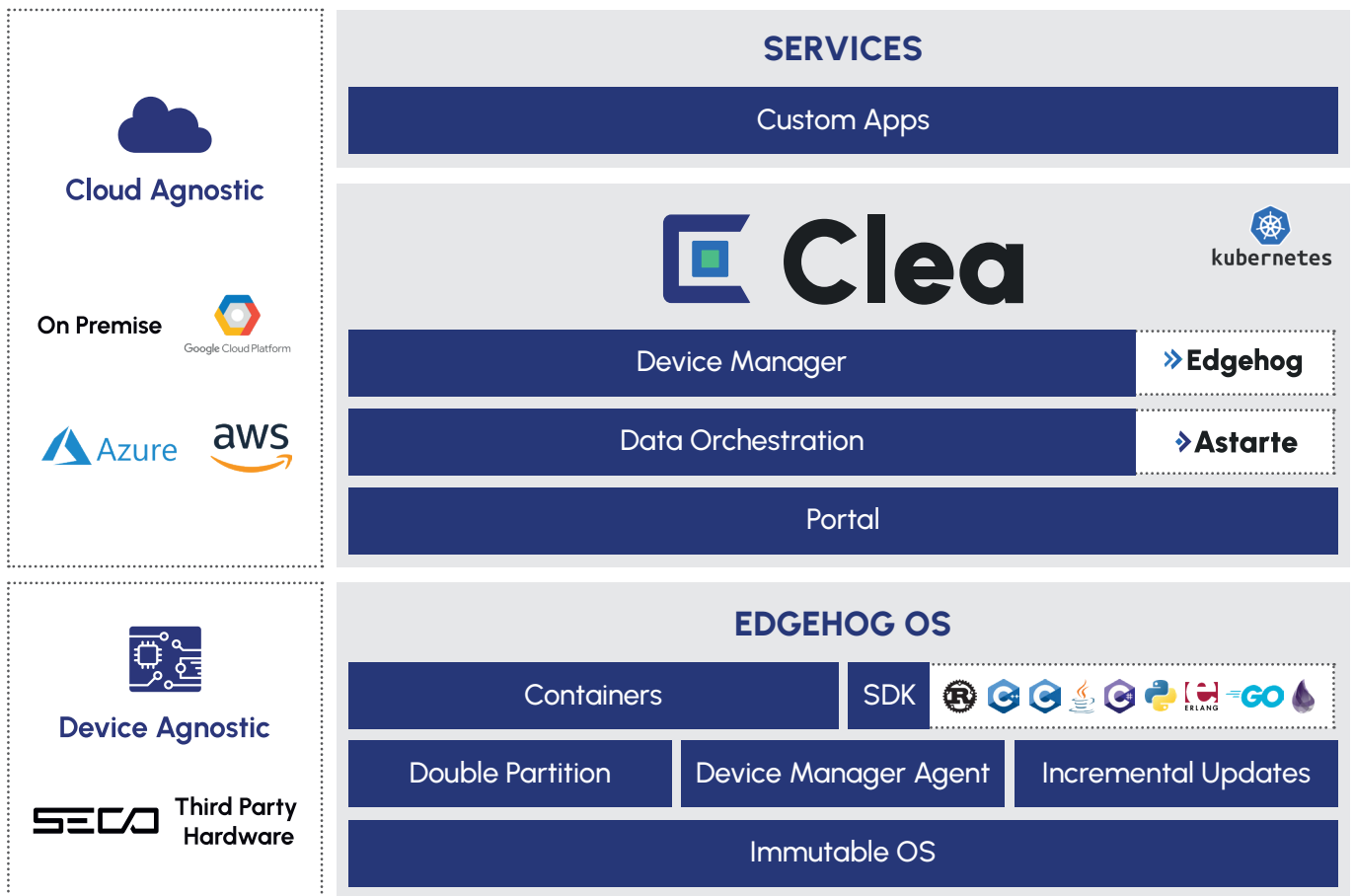
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CLEA DOCS

