

Trizeps SODIMM SOM

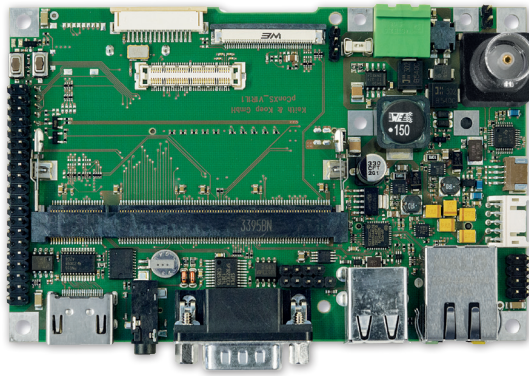
Carrier Board



pConXS
by Keith & Koep

Carrier Board for Trizeps SODIMM SOMs

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



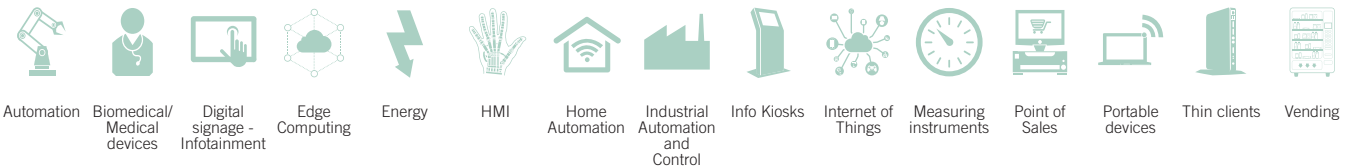
HIGHLIGHTS

- 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



FEATURES

| | | |
|------------------|--|---|
| Processor | <p>Defined by compatible Trizeps SODIMM 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> Audio</p> <p>3.5mm Stereo Jack, Digital Microphone Connector SL2-40 pin header: stereo headphone (16R and 32R), speaker (Mono, 8R), LineIn, microphone</p> |
| Mass Storage | <p>SD Card Socket</p> | <p> Serial Ports</p> <p>RS232 via D-SUB SL2-40 pin header: 2x UART</p> |
| Networking | <p>10/100/1000 Mbit Ethernet RJ45 Connector</p> <p>Wireless functionalities depend on Trizeps SOM:</p> <ul style="list-style-type: none"> • Trizeps VII: Onboard WiFi Bluetooth Modul, IEEE 802.11 a/b/g/n/e/h/d/k/r/w, +18 dBm, 72 Mbps (20 MHz) and up to 150 Mbps (40 MHz), Bluetooth 3.0+ EDR • Trizeps VIII and Trizeps VIII Mini: Onboard WiFi-Bluetooth module, WiFi 2.4GHz/5Ghz, 802.11 a/b/g/n/ac 2x2 MU-MIMO / Bluetooth 5.0 | <p> Other Interfaces</p> <p>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</p> |
| USB | <p>USB2.0 Host, USB2.0 OTG, USB2.0 touch interface, USB2.0 Header</p> | <p> Power Supply</p> <p>Industrial +12V up to +24V supply</p> |
| PCI-e | <p>Mini PCIe Half-/Full Size card edge connector, combined with nano SIM card slot</p> | <p> Operating System</p> <p>Linux Yocto Linux Debian Android Windows 10 IoT</p> |
| Video Interfaces | <p>RGB, LVDS, Dual LVDS, HDMI (with Trizeps VII, Trizeps VIII, Trizeps VIII Plus)</p> | <p> Operating Temperature*</p> <p>-20 ÷ 85°C</p> |
| | | <p> Dimensions</p> <p>118.5 mm x 84.0 mm x 43.0 mm</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.



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