

# Trizeps SODIMM SOM

Carrier Board

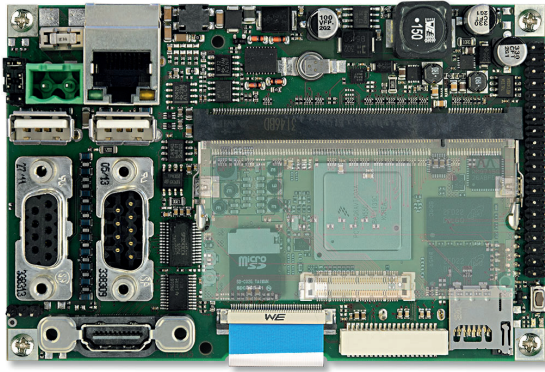


## iP5-Base

by Keith & Koep

### Carrier Board for Trizeps SODIMM SOMs

## Carrier Board for TrizepsVII, Trizeps VIII, Trizeps VIII Mini, Trizeps VIII Nano and Trizeps VIII Plus SOMs



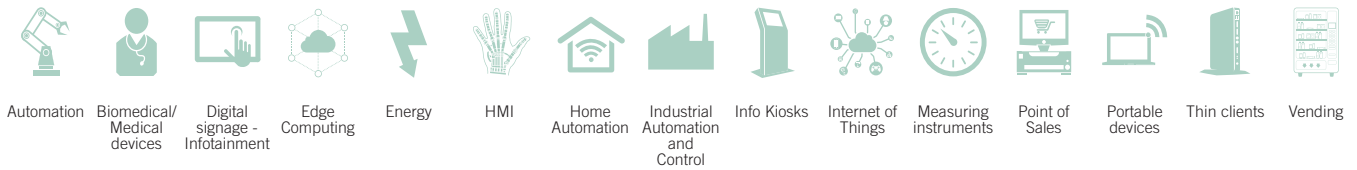
#### HIGHLIGHTS

- Supports a wide range of interfaces, such as Ethernet, USB 2.0, CAN, RS485
- HDMI, LVDS or Dual LVDS, RGB interfaces enable easy integration of various touch displays
- Extension Connector allows additional interfaces to be added
- Vertical Connectors

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"> <li>• NXP i.MX 6 Quad, Dual, DualLite, Solo, SoloX ARM Cortex A9 up to 1.0 GHz on Trizeps VII SOM</li> <li>• NXP i.MX 8M ARM Cortex A53 up to 1.5 GHz, up to Quad Core, integrated ARM Cortex M4 on Trizeps VIII SOM</li> <li>• 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</li> <li>• 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</li> <li>• 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</li> </ul>	<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, CAN</p> <p>1x 40-pin extension connector: GPIOs (1x with PWM), SPDIF (out and in), 2x CAN, SDIO, I2C, 3 x ADC</p>
Video Interfaces	RGB, LVDS, Dual LVDS, HDMI (with Trizeps VII, Trizeps VIII, Trizeps VIII Plus)	Power Supply
Mass Storage	µSD Card Socket	Operating System
Networking	<p>10/100 Mbit Ethernet RJ45 Connector</p> <p>Wireless functionalities depend on Trizeps SOM:</p> <ul style="list-style-type: none"> <li>• Trizeps VII: Onboard WiFi Bluetooth 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), Bluetooth 3.0+ EDR</li> <li>• 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</li> </ul>	Operating Temperature*
USB	USB2.0 Host, USB2.0 OTG	Dimensions
Audio	SL2-40 pin header: stereo headphone (16R and 32R), speaker (Mono, 8R), LinIn, microphone	
Serial Ports	RS232 and RS485 via D-SUB SL2-40 pin header: 2x UART	

\*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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