

TRIZEPS SODIMM SOM

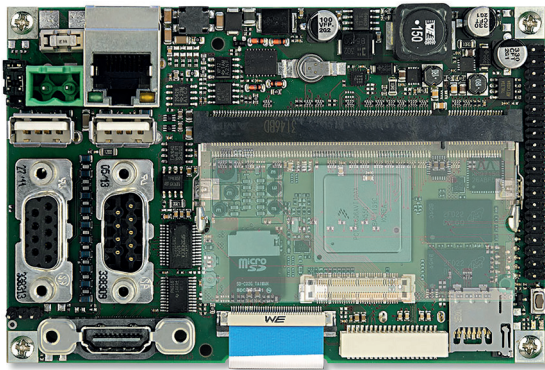
CARRIER BOARDS



Carrier-Trizeps-iP5-Base

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

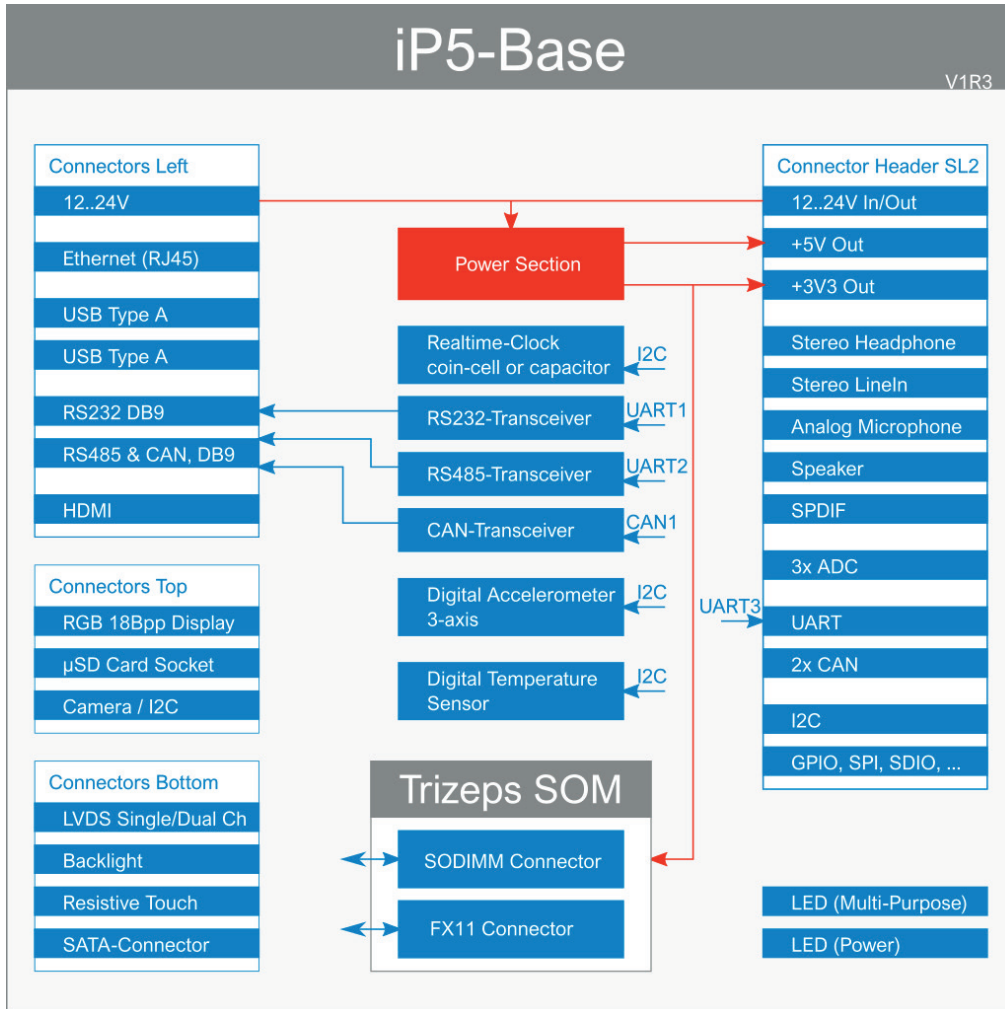
Coffee & Vending	Medical	Transportation	Industrial Automation	Smart Devices	Smart Buildings & Smart Cities	Digital Signage	Energy & Utilities

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> 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	Industrial +12 up to +24V supply
Mass Storage	µSD Card Socket	Operating System	Linux Yocto Linux Debian Android Windows 10 IoT
Networking	<p>10/100 Mbit Ethernet RJ45 Connector</p> <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: Onboard WiFi-BT module, WiFi 2.4GHz/5GHz, 802.11 a/b/g/n/ac 2x2 MU-MIMO / BT 5.0 	Operating Temperature*	-20 ÷ 85°C
USB	USB2.0 Host, USB2.0 OTG	Dimensions	118.5 mm x 77.6 mm x 23.4 mm
Audio	SL2-40 pin header: stereo headphone (16R and 32R), speaker (Mono, 8R), Lineln, microphone	*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.	
Serial Ports	RS232 and RS485 via D-SUB SL2-40 pin header: 2x UART		

Information subject to change. Please visit www.seco.com to find the latest version of this datasheet

BLOCK DIAGRAM



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DATA ORCHESTRATION

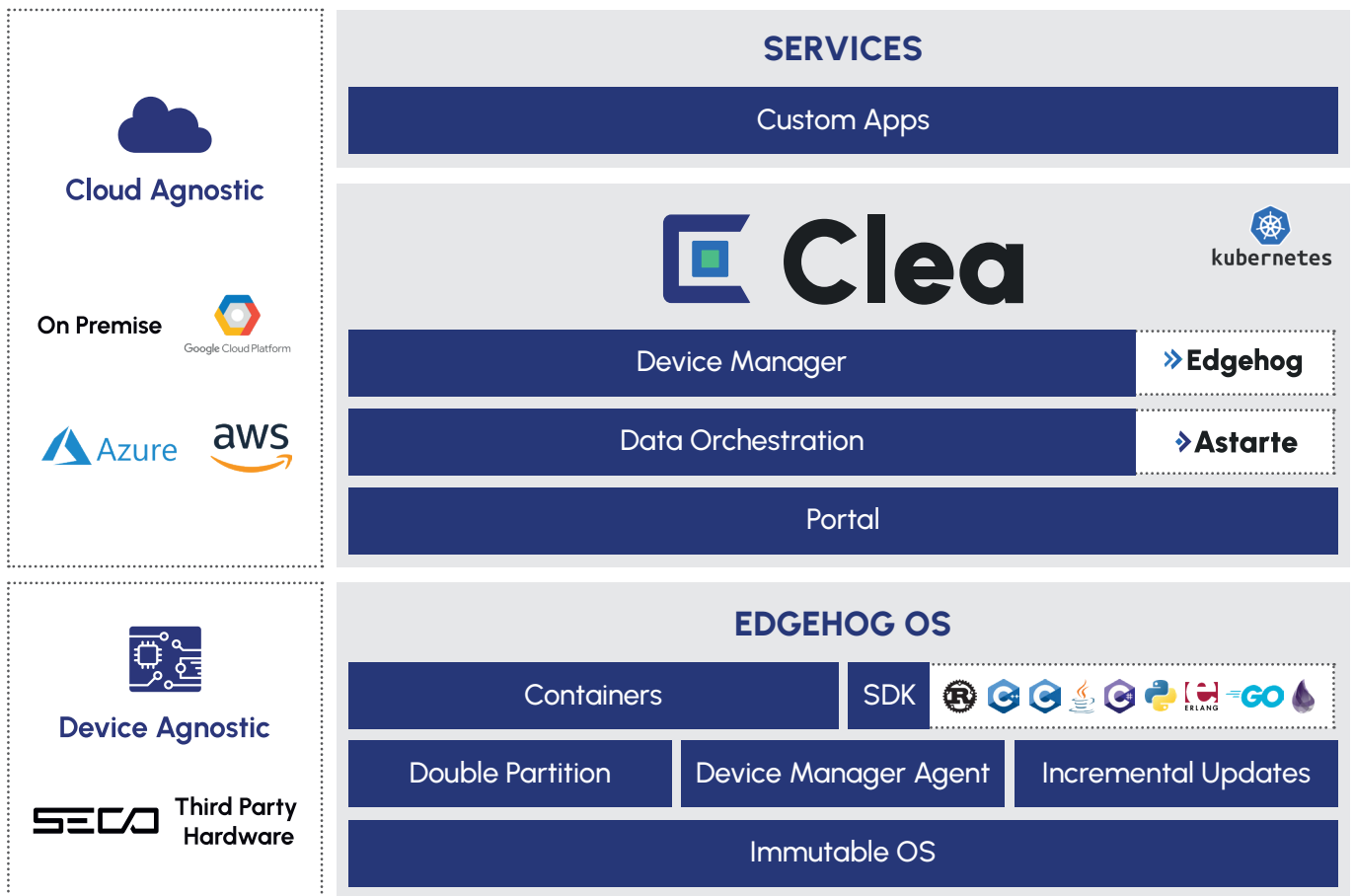
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