



DEV-KIT-Trizeps-i-PAN-T7-II

HMI for Trizeps SODIMM SOMs

HMI with Trizeps SODIMM SOM technology which supports the complete functions of the Trizeps VII and Trizeps VIII Nano/Mini/Plus CPU modules



STARTER KIT CONTENTS

- Evaluation platform for Trizeps SODIMM SOMs
- Ideal basis for customer-specific HMI solutions
- Supports a wide range of interfaces, such as Gbit Ethernet, USB 2.0, audio
- i-MOD extension interfaces allow additional interfaces to be added easily and cost-effectively

Available in Industrial Temperature Range

Windows 10 IoT

Linux

Android

MAIN FIELDS OF APPLICATION



Medical



Industrial Automation



Smart Devices



Smart Buildings & Smart Cities

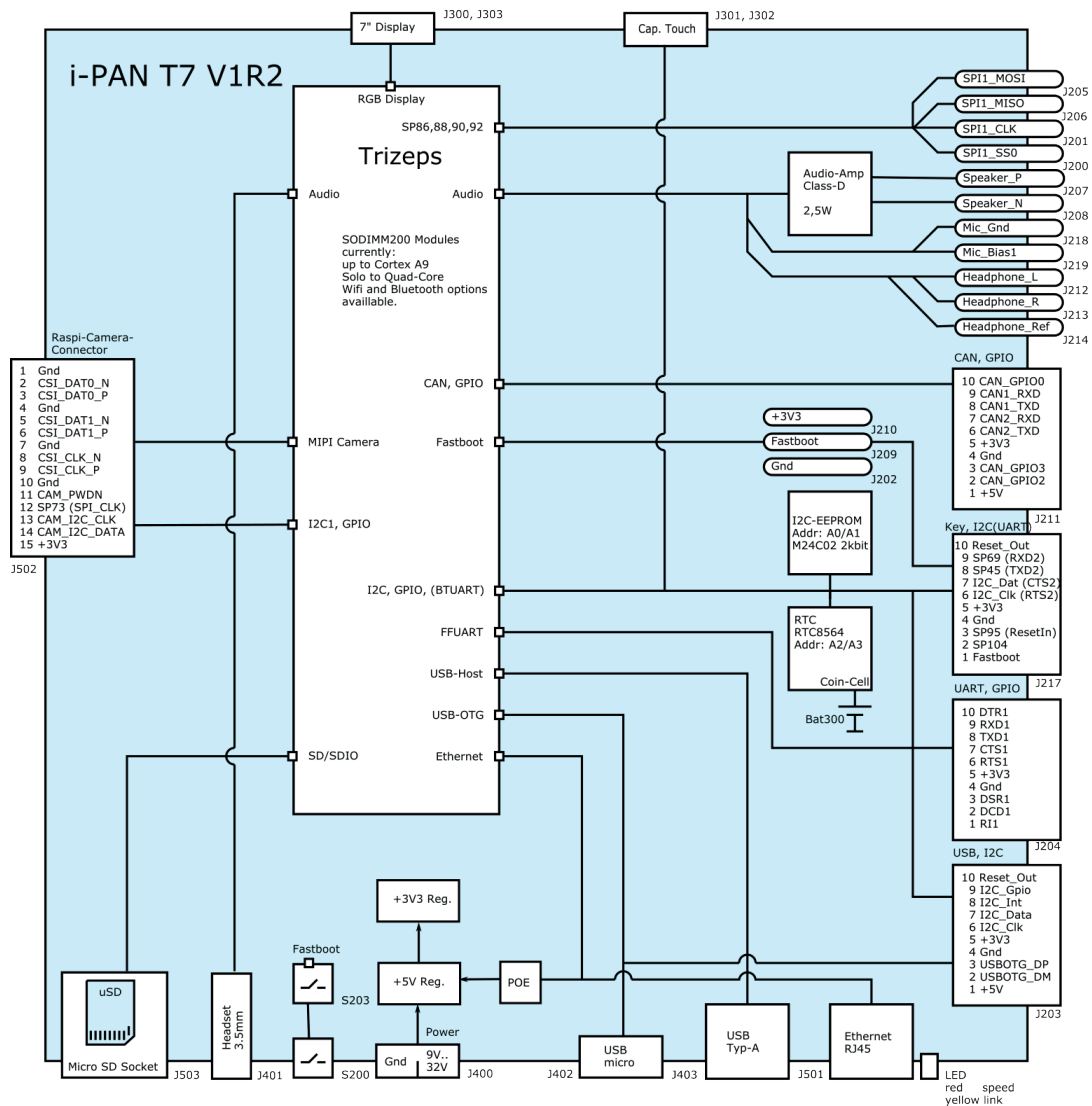


Digital Signage

FEATURES

Processor	Depends on compatible Trizeps SODIMM SOMs	Audio	3,5 mm Headset Jack for Microphone and Headphone Solderpads for Speaker (2.6 W Audio Amplifier), Headphone, Microphone
	• 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	Serial Ports	UART via i-MOD extension connector
Graphics	Depends on compatible Trizeps SODIMM SOMs	Other Interfaces	I2C, CAN, Keys via i-MOD extension connectors SPI via solderpads Realtime Clock with Backup Cap LED Powerfail Detection
Video Interfaces	MIPI-CSI Camera interface connector	Power Supply	Industrial +12 up to 24V supply / Power over Ethernet (POE) on request
Video Resolution	7.0 inch LVDS Display, IPS technology, resolution 1024 x 600, LED lifetime min. 30k hours, typ. 500 cd/qm brightness, P-Cap (Projected Capacitive touch screen), Glass thickness 1.8 mm	Operating System	Microsoft Windows 10 IoT Linux Android
Mass Storage	μSD Card Socket	Operating Temperature*	-20 ÷ 70°C
Networking	Gigabit Ethernet RJ45 connector	Dimensions	178.0 x 108.7 x 27.6 mm (include housing)
	Wireless functionalities depend on Trizeps SODIMM SOMs:	*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.	
USB	• 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		
	USB 2.0 Host, μUSB 2.0 OTG / USB via i-MOD extension connector		

BLOCK DIAGRAM



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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

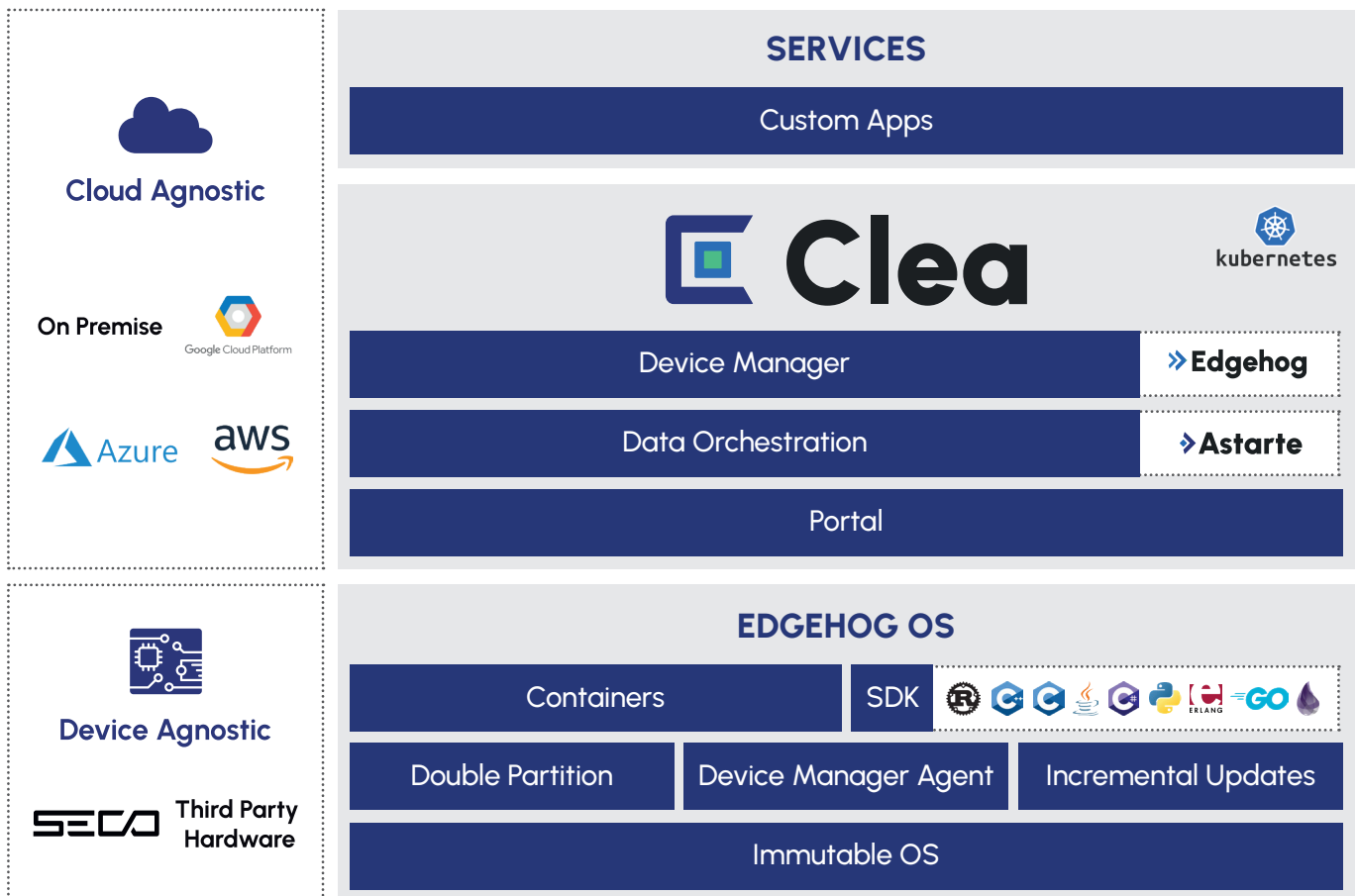
Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

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