TRIZEPS SODIMM SOM



SOM-Trizeps-VIII-MX8M

SODIMM-200 CPU-Module with NXP i.MX 8M Applications Processors

Ideal for use in industrial and home automation, streaming audio applications or advanced imaging equipment

		HIGHLIGHTS				
		CPU NXP I.MX8M Applications Processors		CONNECTIVITY fraction for the second sec	CONNECTIVITY Ix Gigabit Ethernet, WiFi/BT, 2x USB 3.0	
		GRAPHICS Integrated GPU with multi display support		MEMORY Up to 8 GB LPDDR4-3200 me	MEMORY Up to 8 GB LPDDR4-3200 memory	
		()) Available in Industrial Temperature Range				
		SOLD PARTNER NO				
		Windows 10 IoT		Сюрс		
MAIN FIELDS OF APPLICATION						
			33			
Coffe	ee & Medical Tran	sportation Industrial	Smart Devices Sm	art Buldings & Digital Signage Ene	ergy &	
Venc	ding	Automation	S	mart Cities Ut	tilities	
FEATURES						
Processor	NXP i.MX 8M Family based on Arm® Cortex®-A53 cores + general purpose Cortex®-M4 processor:		Serial Ports 4	x UART PDIF In/Out S Nultichannel Serial-Audio-Interface x 12C		
				SPI QSPI GPIOs PWM		
A Memory	Soldered down LPDDR4-3200 memory, 32-bit interface, up to 8GB		Power Supply	3.3 V _{DC}	DC	
Graphics Graphics Processing Unit, independent displays.		Unit, supports 2 ecoding of HEVC,H.264,	Operating System	Linux Yocto Linux Debian Android Windows 10 IoT		
	JPEG (not for i MX8M QuadLite). Supports OpenGL ES 31, Open CL 12, OpenGL 2.x. DirectX 11		Operating Temperature*	70°C (Consumer) ÷ 85°C (Extended Consumer) + 85°C (industrial)		
Video Interfaces	HDMI® v2.0a, MIPI display (4ch), Single-, Dual-LVDS or LCD 24 Bit RGB Camera Interfaces: 8bit parallel, MIPI (4ch and additional 2ch)			67.6 x 36.7 x 6.4 mm		
Video Resolution	HDMI®, MIPI: up to 4k resolution		*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.			
Mass Storage	Onboard 4 Bit wide µSD Card Sc eMMC	ocket or onboard 8 Bit wide				
귬 Networking	Onboard 10/100MBit/1GBit RGMII Optional: WiFi 802.11 a/b/g/n/ac 2	PHY or SIOP interface 2x2 MU-MIMO / BT 4.2/5.0				
😋 USB	2x USB 3.0 OTG					
PCI-e	1x PCIe					
III Audio	Audio Codec: Stereo Headphone output, Stereo Line-In, Microphon	e output, Mono Speaker ne input				



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BLOCK DIAGRAM





Streamline and expedite your edge computing implementations

EDGEHOG OS

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.

DEVICE MANAGER

Update, configure, and manage remote devices. Optimize time and costs to maximize operational efficiency and security without the need for costly field interventions.

DATA ORCHESTRATION

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

Analyze data from remote devices, customize the user experience with applications tailored to user needs, and manage user rights, company access, and tenant privileges.



