Your Partner in Innovation
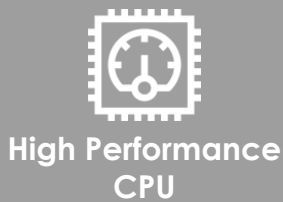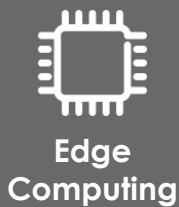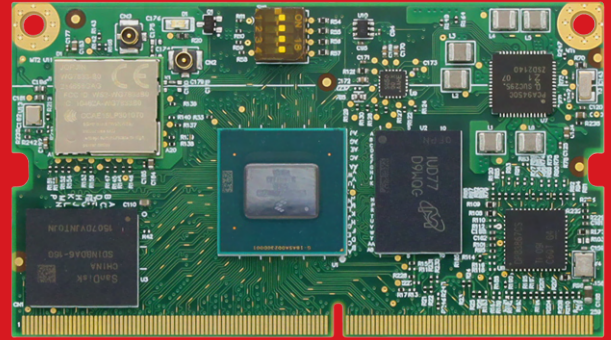Embedded Solutions

NXP Gold Partner

VEST EDG i.MX8M Plus (SO-DIMM)

VEST is a leading embedded solutions provider, committing to excellence and innovation. Our VEST EDG iMX8 Plus in SO-DIMM form factor expedites product development and manufacturing for supply resilience, enabling swift market entry for your products and ensuring a competitive advantage.

Edge Computing

Rich Multimedia

High Performance CPU

Robust Security Features

ABOUT OUR PRODUCT

Unleash the full potential of the NXP i.MX8M Plus, featuring ARM® Cortex®-A53 processor and Neural Processing Unit (NPU). This empowers Artificial Intelligence (AI) and Machine Learning (ML) capabilities, enhances multimedia performance, supports cutting-edge Edge Computing, provides robust video graphics, and enables rapid processing – all within a compact, cost-efficient, and power-efficient package.

Introducing the VEST EDG i.MX8M Plus (SO-DIMM) SOM suitable for diverse range of applications, such as

- Edge Computing
- Video / Audio Conferencing
- Advanced Human Machine Interface Application
- Point of Sales, Digital Signage, Smart Retail, Smart Cities
- Point of Care
- Portable Test and Measurement Instruments
- Automation for Industry 4.0

Key Features

- Dedicated NPU to accelerate AI and machine learning
- Accelerate real-time data processing, with dual display
- Rich multimedia capabilities
- Secured data integrity, safeguard against unauthorized access
- Multiple high-speed interfaces that comply with industrial standards facilitate seamless integration with various peripherals

Support

VESTConnect360
Cloud Management System

Scan here to purchase

Website: apc-vest.com
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E-Store: shop.apc-vest.com
LinkedIn: www.linkedin.com/company/advanced-product-corporation

Specifications (VEST EDG i.MX8M Plus) (SO-DIMM)

CPU Details

CPU	4x Cortex®-A53 @ 1.8GHz, Cortex®-M7 @ 800MHz
CPU Core	Quad	QuadLite	Dual
GPU	GC7000UL with 2 shaders for 3D Graphics	GC520L for 2D
NPU	Neural Processing Unit (NPU) Operating at up to 2.3 TOPS

Memory

Memory	2GB (up to 8GB) 32-bit LPDDR4 up to 4.0GT/s
Storage	16GB (up to 128GB) eMMC5.1

Operating System / Driver

BSP	Yocto Linux, Ubuntu, Android and NXP Real Time Edge Software
Driver	LI-IMX715-MIPI Camera (Leopard Imaging), Hailo-RT

Multimedia

Video Encoder	1080p60, H.265, H.264
Video Decoder	1080p60, H.265, H.264, VP9, VP8
Hi-Fi Audio	Cadence® Tensilica® Hifi 4 DSP @ 800MHz
Camera	2x 4-lane MIPI CSI with Dual Image Signal Processors
Display	MIPI-DSI, up to UWHD and WUXGA	HDMI 2.0a Tx, up to 4kp30 LVDS (4/8-lane) Tx, up to 1920x1080p60
Audio and Video	Up to 2x SAI	1x On Board Audio Codec Supports Headphone Output, Mircophone Input and Line Out| HDMI 2.0a

Connectivity

Wireless	On Board Dual Band Wi-Fi/Bluetooth Module with 2x Antenna (Optional)
Networking	2x on board 10/100/1000 Mbps Ethernet PHY with 1x TSN
USB	2x USB 3.0 / 2.0 Dual Role with PHY Type C
Serial Communication	2x CAN/CAN-FD	Up to 4 UART	Up to 6x I2C	2x SDIO 3.0	3x SPI
Other Connectivity	PCIe Gen3 x 1-lane
Debugging & Programming	JTAG	UART
Power	5Vdc +/-5%

Physical

Form Factor	69.6mm x 40mm (SOM)	260 Pin SO-DIMM Connector
Operating Temperature	Commercial	Industrial (Optional)

Ordering Information

Part No.	VPN8MP5-EDG-42-WC
	VPN8MP3-EDG-42-WC
	VPN8MP5-EDG-42-OC
	VPN8MP3-EDG-42-OC

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