✔EST
Your Partner in Innovation
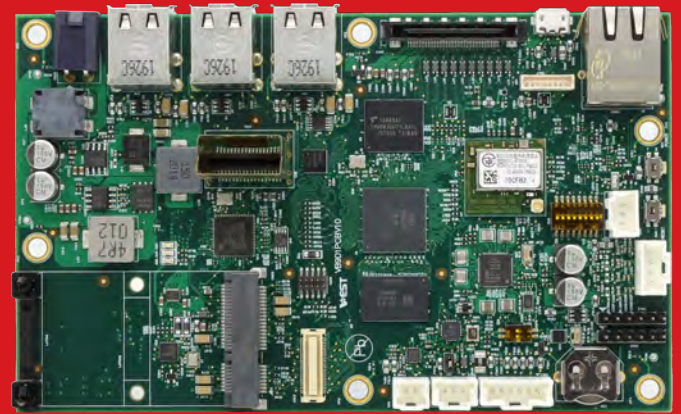Embedded Solutions

VEST SBC i.MX8M Mini

VPN8M4-SBC

VEST is a leading embedded solutions provider, committing to excellence and innovation. Our Single Board Computer (SBC) is designed for fast integration into your product, enabling swift market entry and ensuring a competitive advantage.

Industrial / Commercial IoT

Efficient CPU

Robust Security Features

Rich Multimedia

ABOUT OUR PRODUCT

Introducing the VEST SBC i.MX8M Mini, this compact Single Board Computer (SBC) enable designers to deliver an intuitive, highly interactive, and immersive user experience.

Unleash the full potential of the NXP i.MX8M Mini, featuring an advanced implementation of a Quad Arm® Cortex®-A53 core, which operates at a top clock speed of 1.8 GHz. This provides rich multimedia functionality for general purpose Human-Machine-Interface (HMI) solutions enabling touchy, voice, graphics, video.

This Single Board Computer is versatile and suitable for diverse range of applications such as

- Advanced Human Machine Interface Application
- Industrial and commercial IoT
- Point of Care
- Telematics
- Industrial Automation
- Video / Audio Streaming

Key Features

- Rich multimedia capabilities for advanced HMI application
- A general-purpose Cortex®-M4 400 MHz core processor is for low-power processing
- Built-in 10W audio amplifier (plug and play speaker driver)
- 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

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

Specifications

CPU Details

CPU	i.MX8M Mini | 4x Cortex®-A53 @ 1.8GHz, Cortex®-M4 @ 400MHz
GPU	GC Nano Ultra for 3D Acceleration | GC 320 for 2D Acceleration

Memory

Memory	2GB (up to 8GB) 32-bit LPDDR4-3000
Storage	8GB (up to 128GB) eMMC5.1
External Storage	Micro SD 3.0 Socket Push-Push Type

Operating System

BSP	Yocto Linux, Ubuntu and Android

Multimedia

Video Encoder	1080p60, H.264, VP8
Video Decoder	1080p60, H.265/4, VP9, VP8
Display Controller	Support up to1080p60 Display through MIPI DSI
Display and Touch	On Board LVDS and I2C Touch Connector for 7" or 10" LCD Panel | Socket | Dual Channel 4-lane LVDS | 4-lane MIPI-DSI | I2C Touch | PWM | Up to 1A Backlight Output
Audio and Video	Microphone Input (2mm Pitch 2 Pin Header) | 2mm Pitch, 4 Pin Header for Speaker L&R, up to 10W/ch into 8ohm Load | Compatible to NXP MIPI-HDMI Adapter Card

Connectivity

Wireless	On Board Dual Band Wi-Fi / Bluetooth Module with 1x Antenna (Optional)
USB	USB 2.0 OTG Mirco, Type B | 6x USB 2.0 Host, Type A
Serial Communication	RS485 (default) or RS232 | CAN-1x 2mm Pitch 3 Pin Header
Ethernet	1x Gigabit Ethernet with AVB, IEEE 1588, EEE
I/O Expansion	0.5mm Pitch, 2x 25 Pin Header for 4-lane MIPI CSI | SPDIF | SPI | PWM | UART | 12C | GPIO | Half & Full Size Mini PCIe with Mirco SIM Card Socket
Debugging & Programming	Debug-2x UART Header, 2.54mm Pitch 6 Pin Header | JTAG-1.27mm Pitch 2x 5 Pin Header
Buttons and Indicators	1x On/Off Button | 1x Reset Button | 1x 2mm Pitch 3 Pin Header for Reset & Power | 1x GPIO Controlled LED Indicator
Power	12-24VDC, 2 Pin 4.2mm Pitch Mini Fit JR Header

Physical

Form Factor	147mm x 89mm
Operating Temperature	Commercial | Industrial (Optional)

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