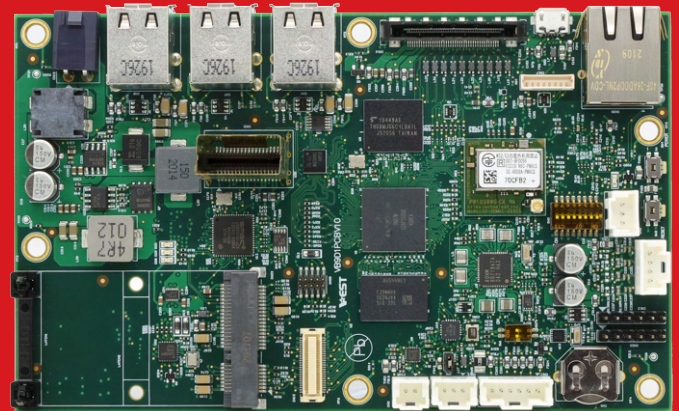


VEST i.MX8M Mini Dev Kit

VEST is a leading embedded solutions provider, committing to excellence and innovation. Our Development Kit expedite product development, enabling swift market entry for your products and ensuring a competitive advantage.



Industrial /
Commercial
IoT



Efficient
CPU



Robust Security
Features



Edge
Computing

ABOUT OUR PRODUCT

Introducing the VEST i.MX8M Mini Development (Dev) Kit. This compact solution is a Single Board Computer (SBC) that 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 touch, voice, graphics, video.

This Dev Kit is versatile and 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

- 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

ADVANCED PRODUCTS CORPORATION PTE LTD (APC)

All product specifications are subject to change without notice. Last updated: March-2024.
Copyright © 2024 APC Pte Ltd. All rights reserved. No part of this document may be photocopied, reproduced, or translated to another language without the prior written permission of APC Pte Ltd.
All trademarks, logos and brand names used in this brochure are the property of their respective owners.
Their use does not constitute an endorsement or affiliation with APC Pte Ltd.



Scan here
to purchase

Website: apc-vest.com

Email: sales@apc-vest.com

E-Store: shop.apc-vest.com

LinkedIn: www.linkedin.com/company/advanced-product-corporation

Specifications (VEST i.MX8M Mini Dev Kit)

CPU Details	
CPU	i.MX8M Mini 4x Cortex®-A53 @ 1.8GHz, Cortex®-M4 @ 400MHz
GPU	GCNanoUltra for 3D Graphics GC320 for 2D
Memory	
Memory	2GB 32-bit LPDDR4-3000
Storage	8GB 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, H.264, VP9, VP8
Camera	1x MIPI CSI
Display Controller	Support up to 1080p60 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 (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 (Energy Efficient Ethernet for Low Power)
I/O Expansion	0.5mm Pitch, 2x 25 Pin Header for 4-lane MIPI CSI SPDIF SPI PWM UART I2C 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
Panel	
LCD Panel Size	7" LCD Panel, 10" LCD Panel (Optional)
Physical	
Form Factor	147mm x 89mm
Operating Temperature	Commercial Industrial (Optional)
Ordering Information	
Part No.	VES-8MM-07-00-SBC-DEV

