VEST
Your Partner in Innovation
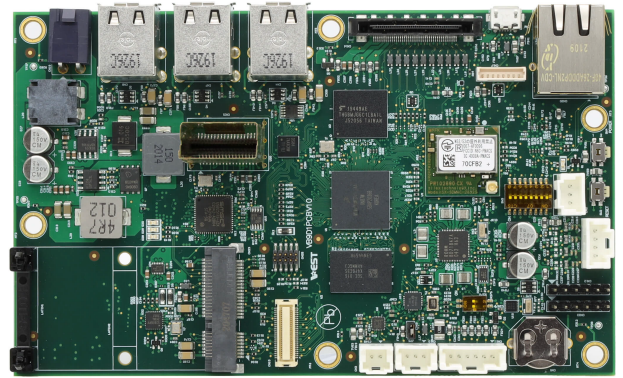SMART . CONNECTED

VEST i.MX 8M Mini Dev Kit

VEST-8MM-07-DEV

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

AI/ML Support

Rich Multimedia

Efficient CPU

Robust Security Features

ABOUT OUR PRODUCT

Introducing the VEST i.MX8M Mini Development (Dev) Kit. This comprehensive solution comes with a 7" Capacitive Touch LCD Display and accessories to power up.

Unleash the full potential of the NXP i.MX8M Mini featuring ARM® Cortex™ -A53 processor. Which enhances multimedia performance, supports cutting-edge Edge Computing, provides advance video graphics and enables rapid processing all within a compact, cost and power efficient package.

This Dev Kit is versatile and suitable for diverse range of applications, such as

- Advance Human Machine Interface Application
- Point of Sales
- Digital Signage
- General Purpose Industrial and IOT Applications
- Automation for Industry 4.0.
- Video / Audio Conferencing

Key Features

- Touch and Gesture control
- Advanced Graphics supporting 3D and 2D renderings
- Rich Multimedia capabilities
- Full HD Video capture and playback
- 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

Linux Yocto	Android	Ubuntu	Qt	TensorFlow	**V**ESTConnect360 Cloud Management System
					VestConnect360

Our Main Office:

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Specifications

CPU Details	
CPU	i.MX 8M 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
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
Camera	1x MIPI CSI
Display	MIPI-DSI
DSI Display	LCD display controller 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 cord

Connectivity	
Connectivity (Wifi)	On Board Dual Band Wi-Fi / Bluetooth Module (optional) | Half & Full Size Mini PCIe with Mirco SIM Card Socket
UPHY	1x PCIe Gen3-1lane, 2x USB 3.0/2.0
Networking	2x 10/100/1000 BaseT RJ45 Ethernet
USB	USB 2.0 OTG Mirco, Type B | 6x USB 2.0 Host, Type A
Serial Communication	RS485 (default) or RS232 | CAN-2x 2mm pitch 3 pin header
Ethernet	2x Gigabit Ethernet with AVB, IEEE 1588, EEE and 1x w/ TSN
Expansion	0.5mm pitch, 2 x 25 pin header for 4-lane MIPI CSI | SPDIF | SPI | PWH | UART | 12C | GP10.x4
Debugging & Programming	Debug-2x UART Header, 2.54mm pitch 6 pin header | JTAG-1.27 mm pitch 2x 6 pin header
Buttons and Indicators	1x On/Off Button | 1x Reset Button | On/Off, Reset, Power LED Control Signal Connector-1x 2mm pitch 3 pin header for Reset & Power | Power LED Indicator- x2, 3.3V & 5V
Power	12-24VDC, 2 pin 4.2 mm pitch Mini Fit JR Header

Physical	
Form Factor	147mm x 89mm

What Encompasses i.MX 8M Mini Development Kit

VEST i.MX8M Mini Single Board Computer

LCD 7" or 10" (Option)

Power Adapter

Plug and Socket

Antenna

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