



Your Partner in Innovation
Embedded Solutions

VEST SMARC Development Kit

Build the next generation of Home and Industrial Automation, IoT, Smart Cities, and Industry 4.0 solutions using VEST Dev Kits — delivering AI/ML, Vision, Multimedia, Matter Protocol, and seamless connectivity to speed innovation and reduce time-to-market for intelligent, connected solutions.



Applications

- Advanced Multimedia Human Machine Interface
- Video & Audio Conferencing
- Medical & Healthcare Devices
- Point of Sales, Digital Signage, Smart Retail, Smart Cities
- Test and Measurement Instruments
- Home, Building & Industrial Automation
- Industrial IoT & Industry 4.0



180mm x 120mm (Carrier Board)
82mm x 50mm (SMARC SOM)

Specifications

- **VEST i.MX8M Plus Dev Kit S:**
Up to Quad-Core Cortex®-A53, Cortex®-M7, 2D/3D graphics, NPU (2.3 TOPS), 2GB RAM, 16GB eMMC, Micro SD slot, Hailo-8/8L AI module via M.2 Key E (Optional)
- **VEST i.MX8M Mini Dev Kit S:**
Up to Quad-Core Cortex®-A53, Cortex®-M4, 2D/3D graphics, 2GB RAM, 16GB eMMC, Micro SD slot, Hailo-8/8L AI module via M.2 Key E (Optional)
- **VEST i.MX8M Nano Dev Kit S:**
Up to Quad-Core Cortex®-A53, Cortex®-M7, 3D graphics, 2GB RAM, 16GB eMMC, Micro SD slot
- **Operating System**





VEST i.MX8M Plus Dev Kit S

VED8MPNSMX/VED8MPNH8SMX/
VED8MPNH8LSMX

Omnivision OV5640, LH-IMX715-MIPI
Camera (Leopard Imaging),
Teledyne e2v (Optimom 2.0)
2x MIPI CSI (4-lane each), ISP up to 12 MP
On SOM Dual Band Wi-Fi/Bluetooth,
Intel® AX210 Wi-Fi 6E module/BE200 Wi-Fi 7
module via M.2 Key E slot (Optional)*
2x Gigabit Ethernet with PoE (1x TSN)
2x M.2 Key B Form Factor Expansion
Daughter Board Socket for MIPI CSI & LDVS
Telit LN920 via M.2 NGFF (LTE Cat 12/13/6,
GNSS: GPS/GLONASS/Galileo/Beidou)
(Optional)*
NXP Real-Time Edge Software,
NXP eIQ®, HailoRT



VEST i.MX8M Mini Dev Kit S

VED8MM7SMX/VED8MM7H8SMX/
VED8MM7H8LSMX

Omnivision OV5640, LH-IMX715-MIPI
Camera (Leopard Imaging),
Teledyne e2v (Optimom 2.0)
1x MIPI CSI (4-lane)
On SOM Dual Band Wi-Fi/Bluetooth,
Intel® AX210 Wi-Fi 6E module/BE200 Wi-Fi 7
module via M.2 Key E slot (Optional)*
1x Gigabit Ethernet with PoE
2x M.2 Key B Form Factor Expansion
Daughter Board Socket for MIPI CSI & LDVS
Telit LN920 via M.2 NGFF (LTE Cat 12/13/6,
GNSS: GPS/GLONASS/Galileo/Beidou)
(Optional)*
NXP Real-Time Edge Software,
NXP eIQ®, HailoRT



VEST i.MX8M Nano Dev Kit S

VED8MN7SMX

1x MIPI CSI (4-lane)
LVDS Connector with backlight for 7" & 10"
LCD Pane, I2C Touch Connector for 7" &
10" LCD Panel
Headphone Jack with Microphone Input,
4 Pin Header for Speaker L&R, Up to
10W/ch into 8ohm Load
Dual Band Wi-Fi/Bluetooth
(Optional on SOM module)
1x Gigabit Ethernet with PoE
1x USB 2.0 Type-C with PD
2x M.2 Key B Form Factor Expansion
Daughter Board Socket for MIPI CSI & LDVS
M.2 Key E (SDIO, UART, GPIO)
NXP eIQ®

*: The Intel® BE200/AX210 Wi-Fi 6E/Telit LN920 LTE and Hailo AI modules utilize the same M.2 Key E interface.
Only one module can be installed at a time. Concurrent operation is not supported.



OMNIVISION™ SCANDIT



Telit
Cinterion



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