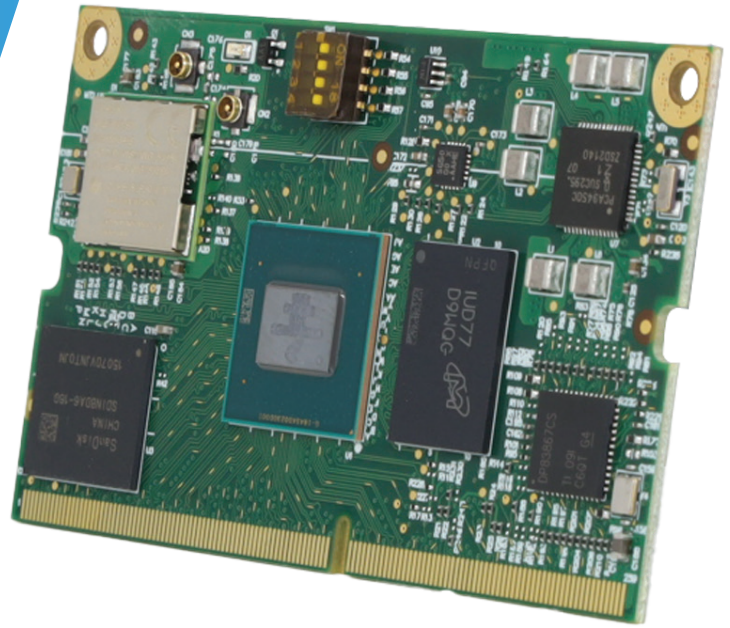


SYSTEM ON MODULE

E2I Plus SOM

VSP09QEC31-1C0



Email Us For Details!
sales@apc-vest.com

VEST E2I Plus SOM features a NXP i.MX 8M Plus; Powerful Quad or Dual Arm® Cortex®-A53 processor with a Neural Processing Unit (NPU) operating at up to 2.3 TOPS.

VEST E2I Plus SOM provide feature rich and high performance solutions for Advance Edge Intelligence and Multi Media applications.



Feature Rich



Easy Integration



Compact

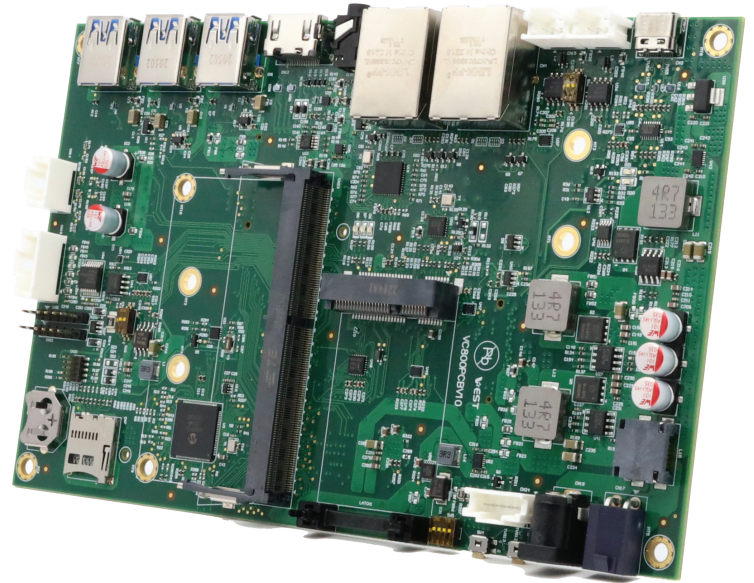
Specifications

CPU	i.MX 8M Plus 4x Cortex-A53 @ 1.8GHz, Cortex-M7 @ 800MHz
GPU	16 GLOPS (high-precision) OpenGL® ES 3.1/3.0, Vulkan®, Open CL™ 1.2 FP, Open VG™ 1.1
NPU	Neural Processing Unit (NPU) operating at up to 2.3 TOPS
Hi-Fi Audio	Cadence® Tensilica® Hifi 4 DSP @ 800MHz
Memory	2GB (up to 8GB) 32-bit LPDDR4 2133-10MHz – 17GB/s.
Storage	8GB (up to 128GB) eMMC5.1
Video Encoder	1080p60, h.265/4
Video Decoder	1080p60, h.265/4, VP9, VP8
Connectivity	On Board Dual Band Wi-Fi / Bluetooth Module (optional)
Camera	2x MIPI CSI with Dual Image signal processors
Display	MIPI-DSI, up to UWH and WUXGA HDMI 2.0a Tx, up to 4kp30
Display	LVDS (4/8-lane) Tx, up to 1920x1080p60
Display	LCD display controller (up to WXGA 1366x768)
SO DIMM	260-pin edge connector
UPHY	1x PCIe Gen3 – 1 lane, 2 x USB 3.0/2.0
In/Out	Up to 3 x UART, 3 x SPI, 5 x I2C, 2 x I2S, 1 x SDIO, 2 x CAN FD
Networking	2x Gigabit Ethernet with AVB, IEEE 1588, EEE and 1x w/ TSN
Dimensions	69.6mm x 40mm
BSP	Linux Yocto, Ubuntu and Android



✉ sales@apc-vest.com

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TECHPlace II
Singapore 569873



VEST E2I Plus Carrier Board (VCP0910100-000) is optimized for performance with the VEST E2I Plus SOM

Technical Specifications

- 12 – 24VDC, 2.0mm DC Jack or 2 Pin 4.2 mm pitch Mini Fit JR Header
- USB 3.0 OTG, Type C
- 3 USB 3.0 Host, Type A
- 2x 10/100/1000 BaseT RJ45 Ethernet
- Full Size Mini PCIe with Nano SIM Card Socket
- Micro SD 3.0 Socket push-push type
- On board LVDS and I2C Touch Connector for 7" & 10" LCD Panel
- 4 Pos Dip Switch for Backlight Selection
- M.2 Display Daughter Board Socket
- Including the Following Interfaces:
 - Dual Channel 4-lane LVDS
 - 4-lane MIPI-DSI
 - I2C Touch
 - PWM
 - Up to 1A Backlight Output
 - GPOs
- HDMI 2.0a Type A
- 3.5mm Headphone Jack with Microphone Input
- 2mm pitch, 4 pin header for Speaker L&R, Up to 10W/ch into 8ohm load
- RS485 (default) or RS232
- CAN- 2x 2mm pitch 3 pin header
- Debug- 2x UART Header, 2.54mm pitch 5pin header
- JTAG- 1.27 mm pitch 2 x 5 pin header
- 1x On/Off Button
- 1x Reset Button
- On/Off, Reset, Power LED Control Signal Connector- 1x 2mm pitch 5 pin header
- Power LED Indicator- x 2, 3.3V & 5V
- M.2 Expansion Daughter Board Socket
- Including the Following Interfaces:
 - 4-lane MIPI CSI x 2
 - SAI x 1
 - SPI x 1
 - I2C x 1
 - Up to 4 x PWM
 - Up to 2 x UART
 - GPIOs
- Form Factor - 180 mm x 112 mm