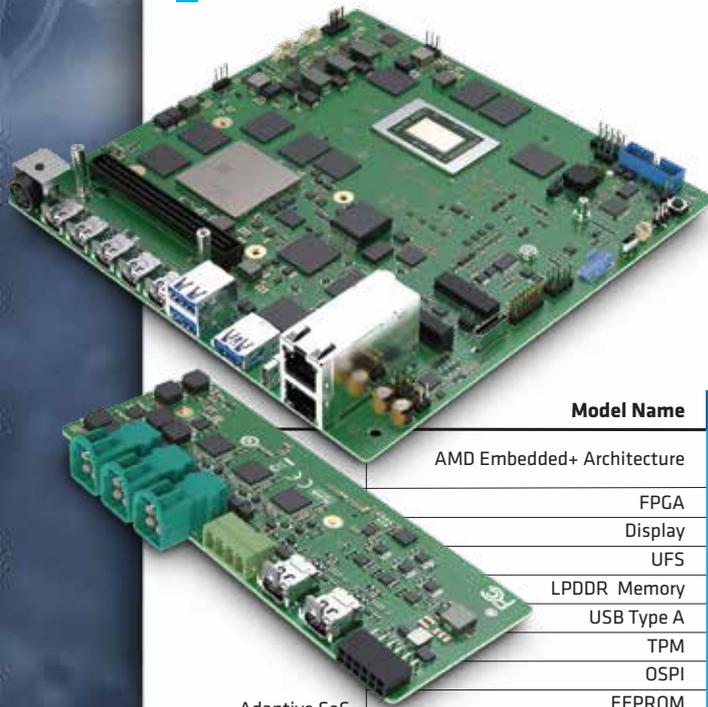




SAPPHIRE RAVE2 EDGE+ VPR-7P100 AMD Embedded+ Motherboard

The RAVE2 EDGE+ VPR-7P100 combines next generation of AMD Ryzen™ AI Embedded P100 Series processors with the latest AMD Versal™ AI Edge Series Gen 2 adaptive SoC devices on a single heterogenous compute platform. It enables industrial and automotive developers to leverage multiple compute engines in parallel to process image and sensor data in real-time for diverse embedded AI edge applications. Previously never available from a single mini-ITX platform.

The RAVE2 EDGE+ VPR-7P100 Mini-ITX embedded motherboard is a powerful combination of AMD Ryzen™ AI Embedded P100 Series APU (Zen 5 CPU, RDNA 3.5 GPU, 50+ TOPS XDNA2 NPU) with AMD Versal™ AI Edge Series Gen2 VE3558 adaptive SoC (world class programmable logic, ARM CPUs, AI engines). The Ryzen AI Embedded supports quad 4K displays, 10GbE, M.2 WIFI, M.2 SSD storage, and USB interfaces to offload the Versal adaptive SoC of non-time critical functions. The Versal adaptive SoC is dedicated to real time preprocessing, sensor ingress, AI inference and low-latency adaptive processing tasks.



SAPPHIRE

Model Name		SAPPHIRE RAVE2 EDGE+ VPR-7P100-MB	
Adaptive SoC Subsystem	AMD Embedded+ Architecture	AMD Ryzen™ AI Embedded P100 Series APU	
	FPGA	AMD Versal™ AI Edge Series Gen2 VE3558 SoC	
	Display	AMD Versal™ AI Edge Series Gen2 VE3558 SoC	
	UFS	1x mini DP	
	LPDDR Memory	256GB UFS3.1	
	USB Type A	4x 4GB LPDDR5,4266MHZ	
	TPM	1x USB3.2 Gen2 Type A	
	OSPI	TPM 2.0 (Infineon OPTIGA™ TPM SLM 9672)	
	EEPROM	1 Gb NOR-Flash for Local Boot	
	LED	64 Kb for Board-ID	
	IO Expansion Connector	1x Done, 1x ERROR_OUT	
	Auto I/O Board	250 Pin Socket	
	PCIe	12x GMSL2, 2x CAN-FD, 2x mini DP, 8x GPIO	
	Processor IC	Gen4 x 2 (Dedicated APU to SoC Connection)	
x86 Processor Subsystem	Processor Memory	AMD Ryzen™ Embedded P100	
	External I/O Edge Connectors	Displays	4x 16GB LPDDR5,4266MHZ
		Ethernet	4x mini DP
		USB Type A	1x 10GbE x86 only, 1x 10GbE switched x86+FPGA
		USB Type C	2x USB3.2 Gen2 Type A
	Internal I/O Headers	Front Panel	1x USB4.0 Type C
		Audio	5 x 2 pins (power button)
		USB	1x Line-Out, 1 x Mic-In
	Board Features	Expansion Slots	1x USB3.2/2.0
			1x M.2 Key M 2280 for SSD (PCIe Gen4 x4)
OS		1x M.2 Key E 2230 for Wireless/BT (PCIe Gen4 x1,I2S and USB2.0)	
Cooler Type		OcuLink PCIe Gen4 x4	
Power Input	RHEL/CentOS 5 7.9; RHEL 8.2 - 8.6; Ubuntu 22.04		
Board Size	Active		
Operating Temperature Range	DC 12V 180W Jack		
	Mini-ITX 6.7" x 6.7" (170mm x 170mm)		
	0°C to 60°C		

Scan QR code for more information:

AMD Embedded+



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Product Information

