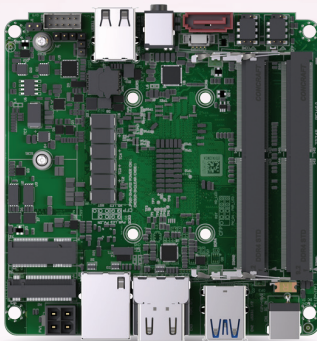


SAPPHIRE BP2-FP5 Embedded 4x4 Platform

Small Form Factor, High Performance



The SAPHIRE BP2-FP5 4"x4" small form factor embedded motherboard is based on the latest AMD Ryzen™ Embedded V/R Series Family of APUs which feature the industry leading Vega GPU graphics combined with the quad/dual-core high-performance "Zen" CPU.

Dual 4K displays can be supported in addition to dual-channel DDR4-2400 memory, and M.2 for WiFi and SSD expansion. The SAPHIRE BP2-FP5 is an ideal solution for small form factor IPC, signage, kiosks, robotics, POS, thin clients, medical imaging and industrial control.

AMD Ryzen™ Embedded processors

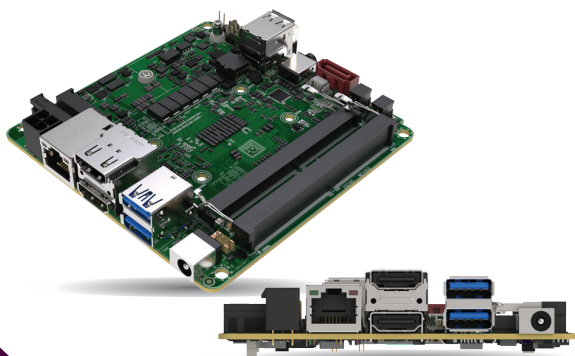
- ▶ "Zen" Architecture with 14nm FinFET
- ▶ Four/Dual CPU cores four/eight threads
- ▶ Vega GPU up to 8 Compute Units
- ▶ Dual-channel DDR4 Up to 2400 MT/s

Features

- ▶ Dual HDMI support
- ▶ One Gigabit Ethernet port
- ▶ Two USB3.1 and two USB2.0 ports
- ▶ One (2 x 5) header supports one USB 3.1
- ▶ One (2 x 5) header supports RS232/422/485

Expansion Slots

- ▶ M.2 2242/2280 M Key slot (PCIe x 4 or SATA III)
- ▶ M.2 2230 E Key slot (PCIe x 1)



SKU		BP2-FP5
Form Factor		4 x 4
CPU		AMD Ryzen™ Embedded V/R 1000
TDP		Max. 25W
Cooler		Active /Passive
System Memory		DDR4 SO-DIMM (ECC/Non ECC) 2x DDR4-Up to 2400, Max. 32GB (Right angle)
External I/O Edge Connectors	Displays	2 x HDMI 2.0
	Ethernet	1x RJ-45, 1GbE
	COM	N/A
	Audio	Combo Mic In/Line out Jack
	USB	2 x USB3.1 + 2 x USB2.0
Internal I/O Headers	COM	1 x (2 x 5) header-- RS232/422/485 (Jumperless)
	Front Panel	1 x (2 x 5) header
	Audio	N/A
	USB	1 x USB 3.1 header (2 x 5)
	Others	N/A
Security	TPM	Infineon SLB9670 TPM2.0 on board
	Chassis	N/A
Power		12 ~ 19V DC power jack 2x2 power header in parallel (with protection diode)
Expansion Slots		1x M.2 (Key M, 2242/2280) with PCIe x4 and SATA for SSD
		1x M.2 (Key E, 2230) with PCIe x1 and USB2.0 for Wireless 1 x SATA3 (6.0 Gb/s) + 1 x SATA Power



<https://www.sapphiretech.com/en/embedded>