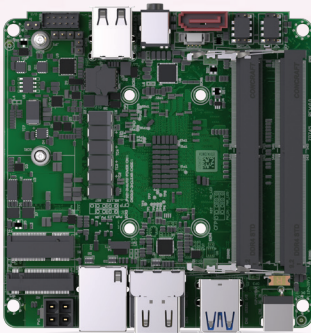


SAPPHIRE BP2-FP5 Embedded 4x4 Platform

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

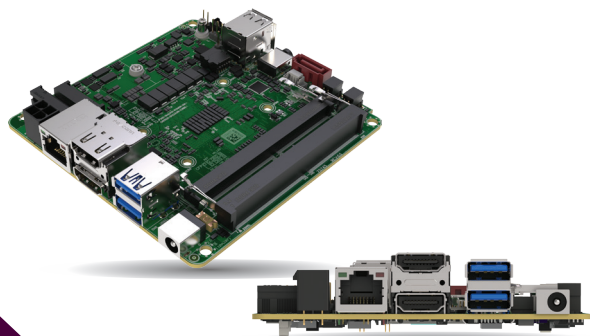
- ▶ "Zen" Architecture with 14nm FinFET
- ▶ Four/Dual CPU cores four/eight threads
- ▶ Vega GPU up to 8 Compute Units
- ▶ Dual-channel DDR4 Up to 2400 MT/s

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>