

SAPPHIRE NP-FP5 Commercial 4x4 Platform



Small Form Factor, High Performance

The new SAPHIRE NP-FP 4" x 4" small form factor commercial motherboard is based on the latest AMD Ryzen™ Embedded V/R Series Family APUs which features the industry leading Vega GPU graphics combined with the qual/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 NP-FP5 is an ideal solution for small form factor, low end applications like POS, thin client, mini-PC. with Ryzen performance for 1 or 2 displays

AMD Ryzen™ Embedded processors

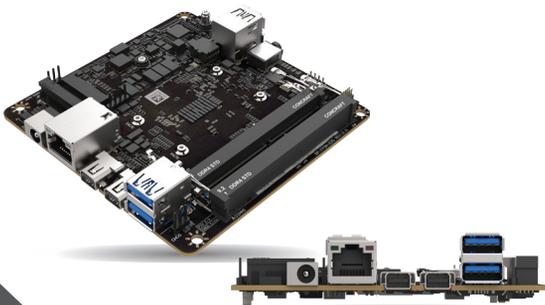
- ▶ "Zen" Architecture with 14nm FinFET
- ▶ Four/Dual CPU cores four/eight threads
- ▶ Vega GPU up to 8 Compute Units
- ▶ Dual-channel DDR4 Up to 2400 MT/s

Features

- ▶ Dual Mini DisplayPorts support
- ▶ Single Gigabit Ethernet ports
- ▶ Dual USB 3.1 ports
- ▶ Dual USB 2.0 ports
- ▶ One (2 x 4) header supports one USB 2.0
- ▶ 12-19V DC power input

Expansion Slots

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



SKU		V/R1000
Form Factor		4" x 4"
CPU		AMD Ryzen™ Embedded V/R1000
TDP		Max. 25W
Cooler		Active
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 mini-DP1.4
	Ethernet	1 x RJ-45, 1GbE
	COM	N/A
	Audio	Combo Mic In/Audio out Jack (Front)
	USB	2 x USB3.1 + 2 x USB2.0 (Front)
Internal I/O Headers	COM	N/A
	Front Panel	1 x (2 x 5) header
	Audio	N/A
	USB	1x (2 x 4) header supports 1 x USB2.0
Security	TPM	N/A
	Chassis	N/A
Power		12 ~ 19V DC power jack N/A
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



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