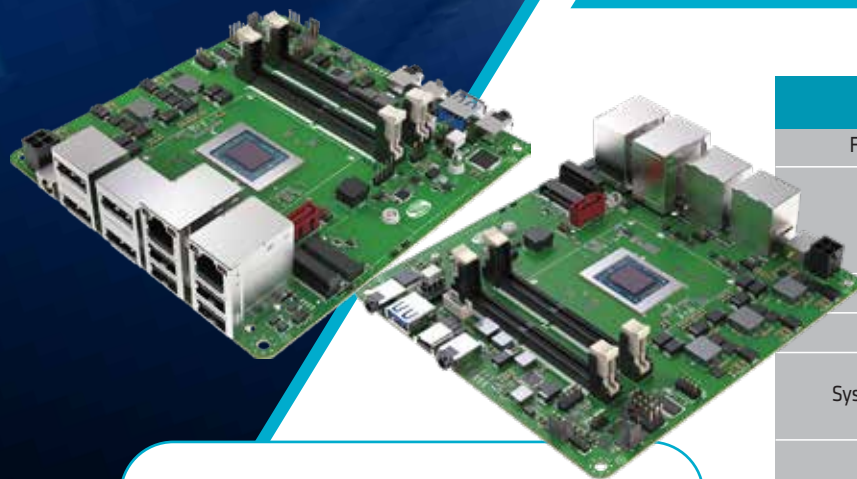


## SAPPHIRE V2000 FS-FP6 Embedded 5x5 Platform

AMD Ryzen™ Embedded  
V2000 APU Quad 4K displays

The new SAPPHERE V2000 FS-FP6 5" x 5" (mini-STX) small form factor embedded motherboard is based on the latest AMD Ryzen™ Embedded V2000 FP6 Family APUs which features the industry leading Vega GPU graphics combined with the high-performance "Zen2" CPU Core. Four 4K displays can be supported in addition to dual-channel DDR4-3200 memory, dual Ethernet controllers, M.2 for WiFi and SSD expansion. The SAPPHERE V2000 FS-FP6 is an ideal solution for high resolution visual embedded applications such as electronic gaming machines, medical imaging, interactive digital signage, thin clients, POS terminals and more.



### AMD Ryzen™ Embedded V2000 processors

- ▶ "Zen2" Architecture with 7nm FinFET
- ▶ 6/8 CPU cores 12/16 threads
- ▶ AMD Radeon Graphics, up to 7x cores, up to 1.6GHz
- ▶ Dual-channel 64-bit DDR4 Up to 3200 MT/s

### Features

- ▶ Four DisplayPort 1.4 Ports
- ▶ Two Gigabit Ethernet ports
- ▶ One USB 3.1 Type-C port
- ▶ One USB 3.1 Gen 2 port
- ▶ Five USB 2.0 ports
- ▶ 12-19V DC power input

### Expansion Slots

- ▶ M.2 2242/2260/2280 M Key slot (PCIe x 4)
- ▶ M.2 2230 E Key slot (PCIe x 1)

		SAPPHIRE V2000
Form Factor		5x5
CPU		V2748 @ 45W V2546 @ 45W V2718 @ 15W V2516 @ 15W
TDP		10-54W
Cooler		Active included
System Memory		2 x DDR4 SO-DIMM Dual-channel @ up to 3200 MHz, 64GB Max for system memory
External I/O Edge Connectors	Displays	4x DP++ 1.4
	Ethernet	2x RJ-45, 1 GbE
	Audio	1x Line-Out, 1x Mic-In
	USB	1 x USB3.1 Type-C, 1x USB 3.1 Gen 2 + 4x USB 2.0
Internal I/O Headers	COM	1x (2x5) header-- RS232/422/485(by jumper)
	Front Panel	1x (2x5) header
	USB	1x (1x4) header - 1 xUSB2.0
	SPI bus	1x (2x4) header
	SATA	1x SATA3 (6.0 Gb/s) Plus SATA PWR 1 x 4 pins
Security	GPIO	1 x (2x5) header, 2.00mm pitch
	TPM	Infineon SLB9670 TPM2.0 on board
Chassis		Intrusion Alert
Power		DC 12-19V, 1 x DC Power Jack 2x2 power header in parallel (with protection diode)
Expansion Slots		1x M.2 (Key M, 2242/2280) with PCIe x4 1x M.2 (Key E, 2230) with PCIe x1 and USB2.0 for Wireless
Dimensions		139.7 x 149.1 x 36.6mm (Without Cooler)