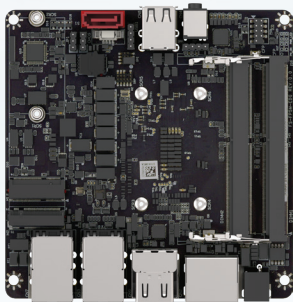


SAPPHIRE N45-FP5

Commercial 4.5x4.5 Platform

Small Quad 4K display Motherboard with AMD Ryzen™ Embedded V1605B APU



The new SAPHIRE N45-FP5 4.5"x 4.5" small form factor board is based on the latest AMD Ryzen™ Embedded V1605B which features the industry leading Vega GPU graphics combined with the high-performance "Zen" CPU Core.

Dual HDMI plus dual DisplayPorts can be supported in addition to dual-channel DDR-2400 memory, dual Ethernet controllers, and M.2 for WiFi and SSD expansion. The SAPHIRE N45-FP5 is an ideal solution for POS, thin client, mini-PC, and signage applications.

AMD Ryzen™ Embedded processors

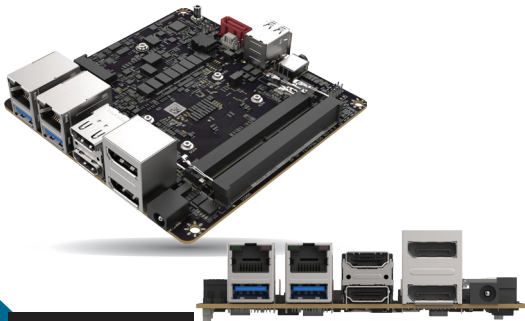
- ▶ "Zen" Architecture with 14nm FinFET
- ▶ Four/Dual CPU cores four/eight threads
- ▶ Vega GPU up to 8 Compute Units
- ▶ Dual-channel DDR4 Up to 2400 MT/s

Features

- ▶ Four displays support
- ▶ Dual 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		V1000
Form Factor		4. 5" x 4.5"
CPU		AMD Ryzen™ Embedded V1605B
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	2x HDMI 2.0 + 2x DP1.4
	Ethernet	2x 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 xUSB2.0
Security	Others	SATA PWR 1 x 4 pins
	TPM	N/A
Power	Chassis	N/A
		12 ~ 19V DC power jack
Expansion Slots		N/A
		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/embedded>

