

ASRock 1U4LW-X470, Rack 1U, UP, AMD Ryzen, 4xLFF, 2xGbE, Fixed PSU, IPMI

Part number: 1U4LW-X470



Chassis Form Factor	Rack 1U
CPU Socket	PGA 1331 (Socket AM4)
# of CPU sockets	1
Supported CPU's	AMD Ryzen PRO 3000 AMD Ryzen PRO 2000 AMD Ryzen 3000 AMD Ryzen 2000
Memory Type	DDR4 ECC UDIMM DDR4 non-ECC UDIMM
# of DIMM's	4
# of 3.5 hot-swap bays	4
# of PCIe x16 3.0	1
# of 1GbE Ports	2 x RJ45
Power Supply	Fixed
PSU Wattage	400W
Warranty	1 year standard 3 years on request

1U4LW-X470

- 1U Rackmount with 400W PSU
- Supports AMD AM4 Socket Ryzen™ Series CPUs and Ryzen 7nm CPUs
- Supports 4x DDR4 ECC and non-ECC UDIMM, max. 128 GB
- Supports external 4 x 3.5" HDD or 2.5" HDD, internal 2x 2.5" HDD, external: Slim ODD x1 or 2.5" HDD x1 (optional)
- Supports 1x PCIe 3.0 x16
- Supports Intel i210 x2
- ASPEED 2500 for BMC controller, Realtek RTL8211E for dedicated IPMI GLAN

Specifications

System	
Form Factor	- 1U Rackmount
Chassis Model	- 1U4LW
Dimensions	- 533.4 x 482.6 x 44.4 mm (21" x 19" x 1.75")
Support MB	- X470D4U(mATX, 9.6" x 9.6")
Front Panel	
Buttons	- Power Switch, ID Switch, System reset, NMI
LEDs	- Power status, HDD, LANs, System Fail activity LEDs
I/O Ports	- 2 x USB 3.0 ports

External Drive Bay / Storage	
Front Side Drive Bay	-External : Hot-swap 3.5'' HDD x 4 or 2.5'' HDD x4 . Slim ODD x1 or 2.5'' HDDx 1 (optional) -Internal: 2.5'' HDD x 2
Internal Side	- 2(M2_1: 2242/2260/2280/22110, PCIE(X4); M2_2:2242/2260/2280/22110, SATA/PCIE(X2))
Power Supply	
Type	- Single PSU
Output Watts	- 400W
System Fan	
Fan	- 40 x 28 mm PWM Easy-Swap Fans x 5
Processor System	
CPU	AMD Ryzen™ PRO 3000 and 2000 Series Desktop Processors 3rd and 2nd Gen AMD Ryzen™ Desktop Processors 2nd and 1st Gen AMD Ryzen™ Desktop Processors with Radeon™ Vega Graphics
Socket	- AM4 PGA 1331
Chipset	- AMD Promontory X470
System Memory	
Capacity	- 4 x 288-pin DDR4 DIMM slots - Support up to 128GB DDR4 ECC/UDIMM
Type	- Dual Channel DDR4 memory technology - Support DDR4 ECC/UDIMM* *Conditionally support ECC error reporting function *For AMD Ryzen Desktop Processors with Radeon Graphics, ECC support is only with Processors with PRO technologies.
DIMM Size Per DIMM	- ECC/UDIMM: 32GB, 16GB, 8GB
DIMM Frequency	- ECC/UDIMM: 3200/2933/2666/2400/2133 MHz *Different memory frequency support please refer our user manual P19.
Voltage	- 1.2V
Expansion Slot	
PCIe 3.0 x 16	- PCIe6: Gen3 x16 link (splittable in x4/4/4/4); auto switch to x8 link when PCIe4 is occupied. - SLOT4: Gen3 x8 link
PCIe 3.0 x 8	- SLOT5: Gen3 x4 link
Storage	
SATA Controller	- 6 x SATA3 6.0 Gb/s (1x SATA DOM port), support RAID 0, 1, 10
Additional Storage Controller	- Asmedia 1061: 2x SATA3 6.0Gb/s
M.2 slot	- 2 (2242/2260/2280/22110, supports SATA3 and PCIe 3.0 x2 or supports PCIe 2.0 x4 only)
Ethernet	
Interface	- 1000 /100 /10 Mbps by Intel® i210AT

LAN Controller	<ul style="list-style-type: none"> - 2 x RJ45 GLAN by Intel® i210AT - 1 x RJ45 Dedicated IPMI LAN port - Supports Wake-On-LAN - Supports Energy Efficient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE - LAN1 supports NCSI
Management	
BMC Controller	- ASPEED AST2500
IPMI Dedicated GLAN	- 1 x Realtek RTL8211E for dedicated management GLAN
Features	- Watch Dog
Graphics	
Controller	- ASPEED AST2500
VRAM	- DDR4 16MB
Rear Panel I/O	
VGA Port	- 1 x D-Sub
USB 3.2 Gen1 Port	- 2
Lan Port	<ul style="list-style-type: none"> - RJ45:2+1(IPMI) - LAN Ports with LED (ACT/LINK LED and SPEED LED)
Serial Port	- 1

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