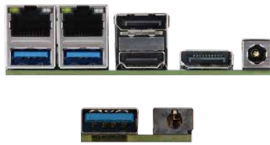
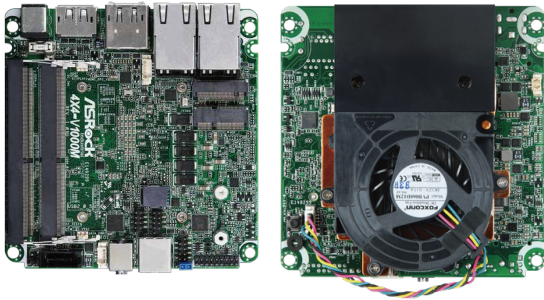




4X4-R1000/ 4X4-V1000M

4X4 Motherboard



KEY FEATURES

- AMD Ryzen™ Embedded R1000 SoC processors (4X4-R1000M, 4X4-R1000V)
- AMD Ryzen™ Embedded V1000 SoC processors (4X4-V1000M)
- 2 x 260-pin SO-DIMM up to 32GB DDR4 2400 MHz with ECC support (16GB per DIMM)
- 3 x USB 3.2 Gen2, 2 x USB 2.0, 1 x M.2 Key M, 1 x M.2 Key E, 1 x COM, 1 x SATA3
- 2 x Realtek 1 Gigabit LAN
- Supports triple display, 1 x HDMI 2.0, 2 x DP 1.2a
- TPM Header
- 12V DC-In

SPECIFICATIONS

Form Factor	4X4-R1000	4X4-V1000M
Dimensions	4X4 (4.09-in x 4.02-in)	

Processor System		
CPU	AMD Ryzen™ Embedded R-Series 4x4-R1000M (R1606G, DC, 2.6GHz, 12-25W) 4x4-R1000V (R1505G, DC, 2.4GHz, 12-25W)	AMD Ryzen™ Embedded V-Series (V1605B, QC, 2GHz, 12-25W)
Chipset	SoC	
Socket	N/A	
BIOS	AMI SPI 64 Mbit	

Memory	
Technology	Dual Channel DDR4 2400 MHz
Capacity	32 GB (16 GB per DIMM)
Socket	2 x 260-pin SO-DIMM

Graphics	
Controller	AMD Radeon™ Vega 3 Graphics AMD Radeon™ Vega 8 Graphics
HDMI	HDMI 2.0 Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 1.2a Max resolution up to 3840*2160@60Hz
VGA	N/A
LVDS	N/A
eDP	N/A
DVI	N/A
MultiDisplay	Triple Display

Expansion Slot	
PCIe	N/A
PCI	N/A
mini-PCIe	N/A
M.2	1 x Key E (2230)with PCIe x1 and USB 2.0 for Wireless
SIM Socket	N/A

Audio	
Interface	Realtek ALC233, High Definition Audio. Line-out, Mic-in

Ethernet	
Controller/ Speed	2 x Realtek RTL8111G-CG with 10/100/1000 Mbps
Connector	2 x RJ-45

Front I/O	
HDMI	N/A
DisplayPort	N/A
USB	1 x USB 3.2 (Gen2)
Audio	1 (Mic-in, Line-out)

Rear I/O	
HDMI	1 x HDMI 2.0
DisplayPort	2 x DP1.2a
VGA	N/A
DVI	N/A
Ethernet	2 x 1 Gigabit LAN
USB	2 x USB 3.2 (Gen2)
Audio	N/A
COM	N/A
PS2	N/A

Internal Connector	
USB	2 x USB 2.0 (1 x 2.00 pitch header)
COM	1 x COM(RS-232/422/485)
Parallel	N/A
GPIO	N/A
TPM	TPM Header
LVDS	N/A
eDP	N/A
VGA	N/A
SATA PWR Output	1
Speaker Header	N/A

Storage	
M.2	1 x M.2 (Key M, 2242/2260/2280) with PCIe4 and SATA3 for SSD *M.2 Key M 2280(optional support, by bracket)
mSATA	N/A
SATA	1 x SATA3 (6Gb/s), SATA3_1 shared with M.2_Key M
eMMC	N/A

Watchdog Timer	
Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ...255sec

Power Requirements	
Input PWR	12V DC-In (DC Jack)
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

Environment	
Operating Temp	0°C - 60°C
Storage Temp	-40° C - 85° C
Operating Humidity	5% - 90%
Storage Humidity	5% - 90%

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660