



4X4-R1000M

Key Features

- AMD Ryzen™ Embedded R-Series
- Supports Dual Channel DDR4 SO-DIMM 2400MHz, up to 32GB
- 2 x DisplayPort, 1 x HDMI
- 3 x USB 3.1, 2 x USB 2.0, 1 x SATA3, 1 x COM
- 1 x M.2 Key M, 1 x M.2 Key E
- 2 x Realtek LAN
- 1 x TPM header
- 12V only (DC Jack)

Specifications

Processor System	
Dimensions	4X4 (4.09-in x 4.02-in)
CPU	AMD Ryzen™ Embedded R-Series (R1606G, DC, 2.6GHz, 12-25W)
Chipset	SoC

Expansion Slot	
PCIe	N/A
Mini-PCIe	N/A
M.2	1 x Key M (2242/2260) with PCIe x4 and SATA3 for SSD 1 x Key E (2230) with PCIe x1 and USB 2.0 for Wireless *M.2 Key M 2280 (optional support)
mSATA	N/A

Memory	
Technology	Dual Channel DDR4 2400MHz
Max	32GB
Socket	2 x SO-DIMM
ECC Support	Yes

Graphics	
GPU	AMD Radeon™ Vega 3 Graphics
VGA	N/A
LVDS	N/A
eDP	N/A
HDMI	Supports HDMI 2.0, max resolution up to 4096x2160@ 60Hz
DVI	N/A
DisplayPort	DisplayPort 1.4 with max resolution up to 4096 x 2160@ 60Hz
Multi Display	Triple Display

Ethernet	
Interface	10/100/1000 Mbps
Controller	2 x Realtek RTL8111G

Front I/O	
Audio	1 (Mic-in, Line-out)
USB	1 x USB3.1

Rear I/O	
VGA	N/A
DVI	N/A
HDMI	1
DisplayPort	2
Ethernet	2
USB	2 x USB 3.1
Audio Jack	N/A
Serial	N/A
PS/2	N/A

Internal Connector	
USB	2 x USB 2.0
LVDS	N/A
eDP	N/A
VGA	N/A
Serial	1 x COM(RS-232/422/485)
SATA	1 x SATA3 (6.0 Gb/s)
Parallel	N/A
GPIO	N/A
SATA PWR Output Con	1
Speaker Header	N/A
TPM	1 x Header

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

Power Requirements	
Input PWR	12V only (DC Jack)
Power On	AT/ATX Supported AT : Directly PWR on as Power input ready Environment ATX: Press Button to PWR on after Power input ready

Environment	
Operating Temperature	0°C – 60°C
Storage Temperature	-40°C – 85° C