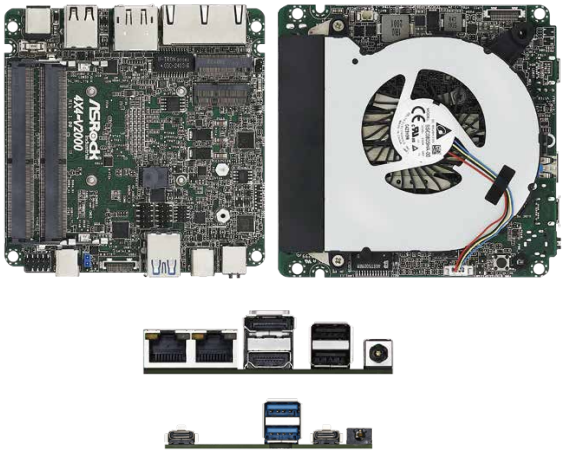
ASRock Industrial

4X4-V2000M/ 4X4-V2000V

4X4 Motherboard



KEY FEATURES

- AMD Ryzen™ Embedded V2718/V2516
- 2 x 260-pin non-ECC/ECC SO-DIMM up to 64GB DDR4 3200 MHz
- 4 x USB 3.2 Gen2, 4 x USB 2.0, 1 x M.2 Key M, 1 x M.2 Key E,
- 1 x COM, 1 x SATA3
- 1 x Realtek 1 Gigabit LAN, 1 x Realtek 2.5 Gigabit LAN
- Supports Quad display, 1 x HDMI 2.0a, 3 x DP 1.2a (2 from Type C)
- TPM 2.0 onboard IC
- 12V~19V DC-In

SPECIFICATIONS

Form Factor

Dimensions	4X4 (4.09-in x 4.02-in)

Processor System

CPU	4X4-V2000M (V2718, 8C, Max Speed up to 4.15GHz) 4X4-V2000V (V2516, 6C, Max Speed up to 3.95GHz)
Chipset	SoC
BIOS	AMI SPI 128 Mbit

Memory

Technology	Dual Channel non-ECC/ECC DDR4 3200 MHz
Capacity	64GB (32 GB per DIMM)
Socket	2 x 260-pin SO-DIMM

Graphics

Controller	AMD Radeon™ Graphics
HDMI	HDMI 2.0a Max resolution up to 4096x2160@60Hz
DisplayPort	DisplayPort 1.2a, DP++ Max resolution up to 4096x2160@60Hz
MultiDisplay	Max 4 display (Included 2 outputs from Type C)

Expansion Slot

M.2	1 x M.2 (Key E, 2230) with PCIe x1, USB 2.0 for Wireless

Audio

Interface	Realtek ALC233, High Definition Audio.

Ethernet

Controller/ Speed	LAN1: Realtek RTL8125BG with 10/100/1000/2500 Mbps LAN2: Realtek R8111EPV (DASH) with 10/100/1000 Mbps
Connector	2 x RJ-45

Front I/O

USB	2 x USB 3.2 Gen2 (Type A) 2 x USB 3.2 Gen2 (Type-C, 5V/3A, Supports DP1.2a display output)
Audio	1 (headphone & microphone jack)

Rear I/O

HDMI	1 x HDMI 2.0a
DisplayPort	1 x DP1.2a
Ethernet	1 x 1 Gigabit LAN, 1 x 2.5 Gigabit LAN
USB	2 x USB 2.0
DC Jack	1

Internal Connector

USB	2 x USB2.0 (1 x 2.54 pitch header)
COM	1 x COM(RS-232/422/485)
TPM	TPM 2.0 onboard IC

Storage

M.2	1 x M.2 (KEY M, 2242/2260/2280) with PCIe x4 and SATA3 for SSD *M.2 Key M 2280(Supported by bracket)
SATA	1 x SATA3.0 (6.0 Gb/s)

Watchdog Timer

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

Power Requirements

Input PWR	12V~19V DC-In 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	-20°C ~ 70°C
Storage Temp	-40° C ~ 85° C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

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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