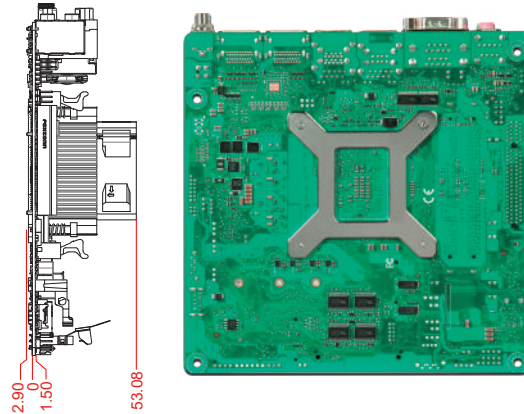
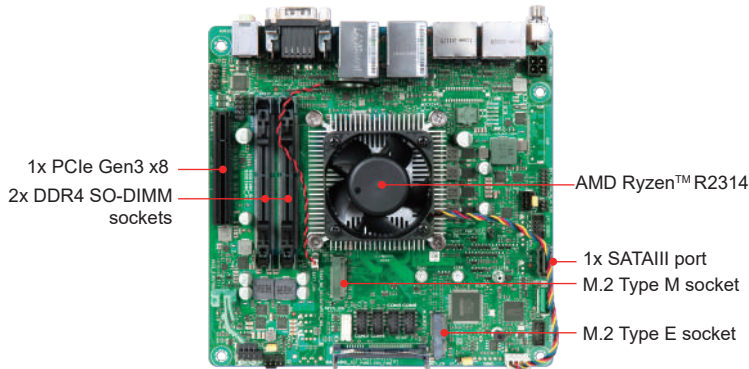


WADE-7220-R2314

AMD Ryzen™ Embedded R2314 APU based Mini-ITX Board with DP, Dual GbE, USB 3.2 Gen2, SATA III, M.2, CFAST

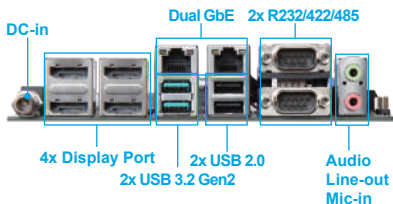


WADE-7220-R2314 is based on AMD Ryzen™ R2314 APU. With dual channel DDR4 SO-DIMM memory and rich I/O sets, the Portwell WADE-7220-R2314 Mini-ITX embedded board empowers energyefficient solutions for industrial automation applications.

FEATURES

- AMD Ryzen™ Embedded R2314 APU
- Two SO-DIMM support DDR4 DRAM up to 32GB
- Support dual Ethernet, 6x COM Ports
- Support 2x USB 3.2 Gen2, 1x USB 3.2 Gen1, 4x USB 2.0, 1x SATAIII port
- Supports 1x PCIe Gen3 x8, 1x CFAST, 2x M.2 socket (Key M & Key E)

REAR I/O



ORDERING GUIDE

AB1-3R27	(R) WADE-7220-R2314. Mini-ITX ESB. AMD Ryzen Embedded R2314 w/DDR4/DP/dual GbE LAN/SATA
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PACKING LIST

One WADE-7220-R2314 motherboard with Cooler
One I/O shield
One SATA cable

GENERAL

Processor	AMD Ryzen™ Embedded R2314 APU, 2.1 GHz (3.5 GHz turbo), 15W(12-35W) TDP
Chipset	N/A
BIOS	AMI uEFI BIOS
Memory	- Support 2x SO-DIMM sockets - Up to 32GB DDR4 2667 MHz memory - Support ECC
Storage Devices	1x SATAIII ports
Watchdog Timer	Programmable watchdog timer
Hardware Monitoring	Temperature (CPU & System)
Expansion Interface	- 1x PCIe x8 Gen 3 - 1x M.2 Key E 2230 with PCIe x1 and USB 2.0 for Wireless - 1x M.2 Key M 2242/2260/2280 with PCIe x2 and SATA signal for SSD - 1x CFAST* *If CFAST is enabled, M.2 SATA will be disabled, and vice versa. You may configure this setting in the BIOS.

I/O INTERFACE

Audio	-Intel® High Definition Audio interface Realtek® ALC897 High Definition Audio -Audio jack support Line-out/Mic-in -2x 2W Stereo Speaker output -1x 5.1 channel internal pin header
Ethernet	2x RJ45 connectors on rear I/O (Realtek® RTL8111H)
Serial port	-2x RS232/422/485 port on rear I/O -4x RS232 ports on pin header
USB	-2x USB 3.2 Gen2 on rear I/O -2x USB 2.0 on rear I/O -1x USB 3.2 Gen1 Type A vertical connector -2x USB 2.0 on pin header
GPIO	8-bit GPI/GPO

DISPLAY

Graphic Controller	AMD Radeon Vega 6 Graphics
Display Interface	-DP1: resolution up to 3840x2160 -DP2: resolution up to 3840x2160 -DP3: resolution up to 3840x2160 -DP4: resolution up to 3840x2160

Mechanical & Environment

Dimension	170mm(L) x 170mm(W)
Power Supply	12~24V DC in (1 x external DC jack; 1 x internal 4 pin power connector)
Environment	- Operation Temperature: 0°C to 60°C - Storage Temperature: -20°C to 80°C - Relative Humidity: 10% to 95%, non-condensing
MTBF	Over 100,000 hours at 40°C



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