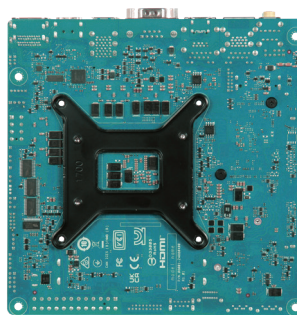
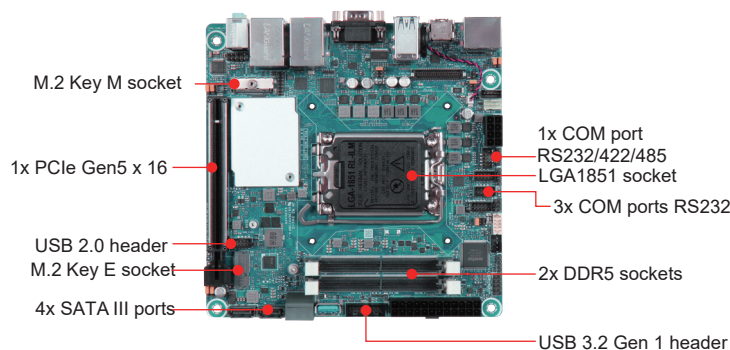


WADE-8214-Q870

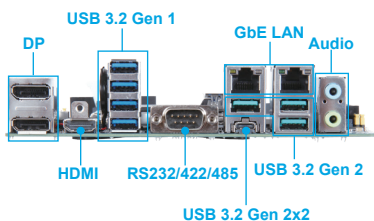
Intel® Core Ultra 9/7/5, 65W; Dual SO-DIMM DDR5 up to 96GB; PCIe Gen5x16, M.2 Key E/CNVI, M.2 Key M NVMe; Dual Ethernet, 5x COM, 11x USB 3.2, 4x SATA III



FEATURES

- Support up to 65W Intel® Core Ultra 9/7/5 processors (Series 2)
- Supports Intel® 800 Series Chipset
- Dual SO-DIMM support DDR5 DRAM up to 96GB
- Supports dual Ethernet, 5x COM ports, 11x USB 3.2 ports, 4x SATA III ports and Audio
- Supports one PCIe x16 (Gen5), one M.2 2230 Key E with PCIe and CNVI for Wireless and one M.2 2280 Key M with PCIe 5.0 for NVMe

Rear I/O



Ordering Guide

AB1-3U52	(R).WADE-8214-Q870.Mini-ITX.ESB. Q870E. w/o ECC LGA1851.w/DDR5 SO-DIMM/DP/HDMI@Dual GbE/COM/Audio/USB
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Packing List

One WADE-8214-Q870 Main board
One I/O shield
One SATA cable

General

Processor	Intel® Core™ Ultra Processors (Series 2), LGA 1851 socket, 65W TDP
Chipset	Intel® Q870
BIOS	AMI uEFI BIOS
Memory	Supports up to 96GB DDR5 6400 MT/s on 2 non-ECC SODIMM
Storage	4x SATA ports RAID 0, 1, 5, 10
Watchdog Timer	Programmable, time out period from 1 sec to 255 secs
Graphic Controller	Intel® Graphics OpenGL 4.5

Rear I/O

Audio	- 1x Audio Jack Line-in w/ Realtek ALC897 - 1x Audio Jack Line-out w/ Realtek ALC897
Ethernet	- 1x Intel® I210AT with GbE LAN 10/100/1000 Mbps - 1x Intel® I226LM with 2.5 GbE LAN 10/100/1000/2500 Mbps
Serial Port	- 1 x COM port supports RS-232/422/485
USB	- 3x USB 3.2 Gen2 Type A on Bracket - 4x USB 3.2 Gen1 Type A on Bracket - 1x USB 3.2 Gen2 x2 Type C on Bracket
Display	- 2x DP 1.4 4096 x 2160@60Hz - 1x HDMI® 2.1 4096 x 2160@60Hz

Expansion I/O

PCIe	1x PCIe Gen5 x16 (1 x16 mode; 2 x8; 1x8, 2x4 mode)
Serial Port	- 1x Pin Header support RS-232/422/485 - 3x Pin Header support RS-232
USB	- 1x USB 3.2 Gen1 Vertical Type A - 2x USB 3.2 Gen1 Pin Header
M.2	- 1x M.2 E Key 2230 support CNVi, PCIe x1 - 1x M.2 M Key 2280 support PCIe x4 TPM
Security	SPI header
Display	1x eDP / LVDS (Onboard Header)
GPIO	1x 8-bit Digital I/O

Mechanical/Environment

Dimension	170 x 170 mm (6.69" x 6.69")
Power Supply	AT mode/ ATX mode
Operating Temperature	0 ~ 60 °C (32.0 ~ 140.0 °F)
Storage Temperature	-40 ~ 85 °C (-40.0 ~ 185.0 °F)
Relative Humidity	5% to 95%, non-condensing
Certification	CE/FCC UKCA
OS	Windows 11 IoT Enterprise 2024 LTSC, Windows 10 IoT Enterprise 2022 LTSC
Portwell Special Feature	PET, RPET (Remote Portwell Engineering Toolkits)