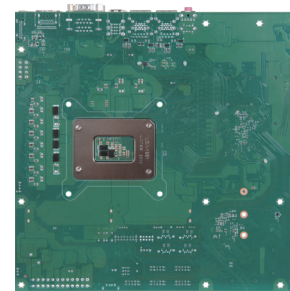
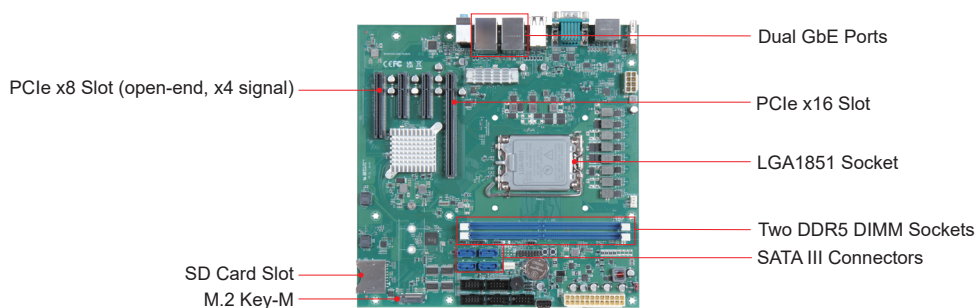


# RUBY-D722G2A

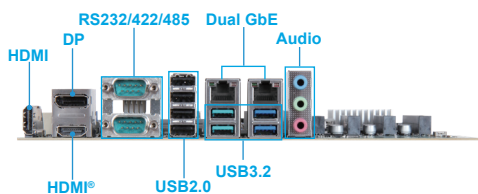
Intel® Core™ Ultra Processors; 2x DDR5 Long-DIMM up to 96GB; PCIe x16, PCIe x8, 2x PCIe x4, 1x M.2 key M; dual LAN, 6x COM, 4x USB 3.2, 4x SATA III



## FEATURES

- Intel® Core™ Ultra Processors (Series 2)
- Supports Intel® 800 Series Chipset
- Two Long-DIMM support DDR5 Non-ECC DRAM up to 96GB
- Support dual Ethernet (one supports OOB function), 6x COM ports, 4x USB 3.2 ports, 4x SATA III ports and Audio
- One PCIe x16, one PCIe x8 (PCIe x4 signal), 2x PCIe x4 (PCIe x1 signal). One M.2 (Type M), type 2242/2260/2280

## REAR I/O



## Ordering Guide

<b>AB1-3T78</b>	(R).RUBY-D722G2A-125W. Micro-ATX.IMB.LGA1851. H810 PCH.DDR5/DP/Dual HDMI®/Dual GbE/COM/Audio/USB-125W
<b>AB1-3U98</b>	(R).RUBY-D722G2A-65W. Micro-ATX.IMB.LGA1851. H810 PCH.DDR5/DP/Dual HDMI®/Dual GbE/COM/Audio/USB-65W

## PACKING LIST

One RUBY-D722G2A Main board
One I/O shield

## General

Processor	- Intel® Core™ Ultra Processors (Series 2), LGA 1851 socket, 65W TDP - Intel® Core™ Ultra Processors (Series 2), LGA 1851 socket, 125W TDP
Chipset	Intel® H810
BIOS	AMI uEFI BIOS
Memory	Support up to 96GB DDR5 5600 MT/s on 2 non-ECC UDIMM board
Storage Devices	- 4 x SATA Ports Support RAID 0, 1, 5, 10 - 1 x SD
Watchdog Timer	Programmable, time out period from 1 s to 255 secs
Graphic Controller	Intel® Xe LPG Graphics

## Rear I/O

Audio	1 x Audio Jack Line-in , Line-out , Mic-in w/ Realtek ALC897
Ethernet	-1 x Intel I210AT with GbE LAN 10/100/1000 Mbps (Support OOB W/ OS Recovery, BIOS recovery, Power On/Off, Reset, SOL) -1 x Intel I219LM with GbE LAN 10/100/1000 Mbps
Serial Port	2 x COM Ports Support RS-232/422/485
USB	- 2 x USB 3.2 Gen2 Type A on Bracket - 2 x USB 3.2 Gen1 Type A on Bracket - 4 x USB 2.0 Type A on Bracket
Display	- 2 x DP 1.4 4096 x 2160@60Hz - 1 x DP 2.0 4096 x 2160@60Hz

## Expansion I/O

PCIe	- 1 x PCIe Gen5 x16 - 1 x PCIe Gen4 x8 ( x 4 signal ) Open Slot - 2 x PCIe Gen4 x4 ( x 1 signal ) Open Slot
Serial Port	4 x Pin Header support RS-232
USB	1 x USB 2.0 Vertical Type A
M.2	1 x M.2 M Key 2242 2260 2280 support SATA, PCIe x1
Security	TPM 2.0 ( On Board IC )
GPIO	1 x 8-bit Digital I/Os
Others	1 x SMBus

## Mechanical/Environment

Dimension	244 x 244 mm (9.61" x 9.61")
Power Supply	AT mode/ ATX mode
Operating Temperature	0 ~ 60 °C (32.0 ~ 140.0 °F)
Storage Temperature	-20 ~ 80°C(-4.0 ~ 176.0 °F)
Relative Humidity	5% to 95%, non-condensing
Certification	CE/FCC
OS	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC, Ubuntu 24.04, RedHat Enterprise
Portwell Special Feature	PET, OOB API