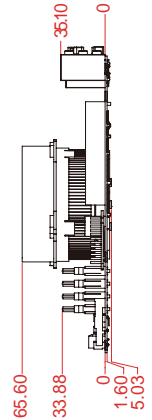
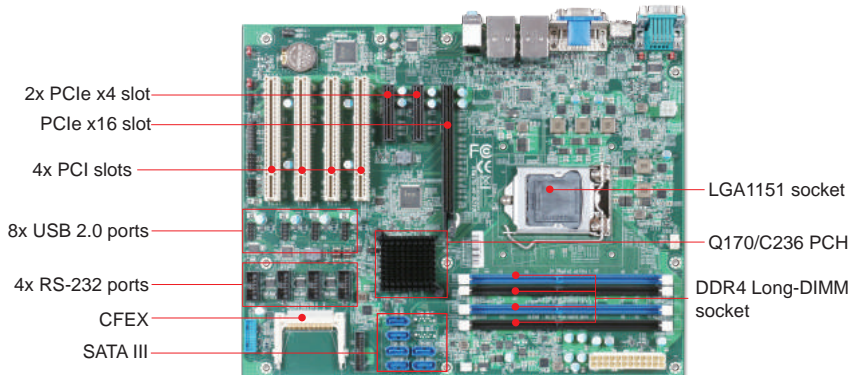


# RUBY-D718VG2AR

Leading Desktop Intel® 6<sup>th</sup> Gen Core™ processor ATX with DDR4 SDRAM, Triple Displays, 2x GbE LAN ports, 6x COM Ports

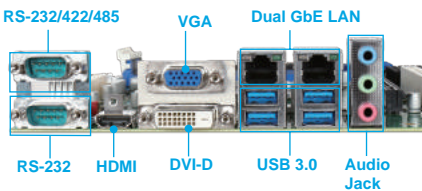


RUBY-D718VG2AR is based on Intel® Q170/C236 chipset and desktop processor SKU like Intel® 6<sup>th</sup> Gen Core™ i3, i5 and i7 Processors. Built with PCI and PCIe expansions, it's suitable for Medical, Industrial automaton, and Digital Signage application.

## FEATURES

- Intel® 6<sup>th</sup> Gen Core™ Processors support
- 4x Long-DIMMs support DDR4 ECC(C236) / Non-ECC(Q170) SDRAM up to 64GB
- 1x PCIe x16, 2x PCIe x4, 4x PCI slots

## REAR I/O



## ORDERING GUIDE

<b>AB1-3D29</b>	(R).RUBY-D718VG2AR ATX.IMB.LGA1151.CPU.Q170.DDR4/VGA/HDMI/DVI/Dual GbE/COM/Audio/USB
<b>AB1-3D77</b>	(R).RUBY-D718VG2AR-C236 ATX.IMB.LGA1151.CPU.C236.DDR4/VGA/HDMI/DVI/Dual GbE/COM/Audio/USB

## PACKING LIST

One RUBY-D718VG2AR ATX Industrial Main Board
One Installation DVD
One SATA III cable
One I/O shield



## GENERAL

Processor	Intel® 6 <sup>th</sup> Gen Core™ Processors in LGA1151 package
Chipset	Intel® Q170 / C236
BIOS	AMI UEFI BIOS (SPI ROM)
Memory	4x DDR4 1866/2133 MT/s Long-DIMM up to 64GB non-ECC memory
Storage Devices	6x SATA III ports (C236 Supports 8x SATAIII ports)
Watchdog Timer	Programmable by embedded controller
Hardware Monitoring	System monitor voltage, fan speed, and temperature
Expansion Interface	- 1x PCIe 3.0 x16 slot - 2x PCIe 3.0 x4 slot - 4x PCI devices at 32 bit 33 MHz

## I/O INTERFACE

Super I/O	N/A
Audio	- Realtek ALC886 HDAcodec - Audio jack on rear I/O with Line-out/ Line-in/ Mic-in
Ethernet	- Intel® I219LM and Intel® I210AT Ethernet controller - 2x RJ45 connectors on rear I/O
Serial Port	- 1x RS-232/422/485 on rear I/O - 1x RS-232 on rear I/O - 4x RS-232 on pin header
USB	- 4x USB 3.0 ports on rear I/O - 2x USB 3.0 ports on pin header - 8x USB 2.0 ports on pin header
Keyboard & Mouse	PS/2 Keyboard & Mouse Pin Header
GPIO	8-bit configurable controlled by embedded controller
Other	Option TPM module with LPC pin header

## DISPLAY

Graphic Controller	Intel® Gen 9 graphic engine supports DirectX 12, OpenGL 4.4
Display Interface	- DVI-D: 1x DVI-D port on rear I/O, up to 1920x1200@60Hz - HDMI: 1x HDMI port on rear I/O, up to 4096x2160 @ 24Hz - VGA: 1x VGA port on rear I/O, up to 1920x1200 @ 60Hz

## Mechanical & Environment

Dimension	304.8mm(L) x 243.8mm(W)
Power Supply	24-pin Pin ATX power input
Environment	- Operation temperature: 0°C~60°C - Storage temperature: -20°C~80°C - Relative humidity: 5%~95%, non-condensing
Certification	CE,FCC Class A
MTBF	Over 120,000 hours at 40°C