RUBY-D718VG2AR

Two PCIe x4 slot (x4 signal)
One PCIe x16 slot
Four PCI slots
CFEX
SATA III ports

Dual GbE ports
LGA1151 socket
Four DDR4 DIMM socket
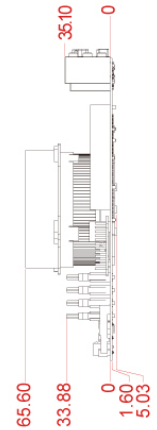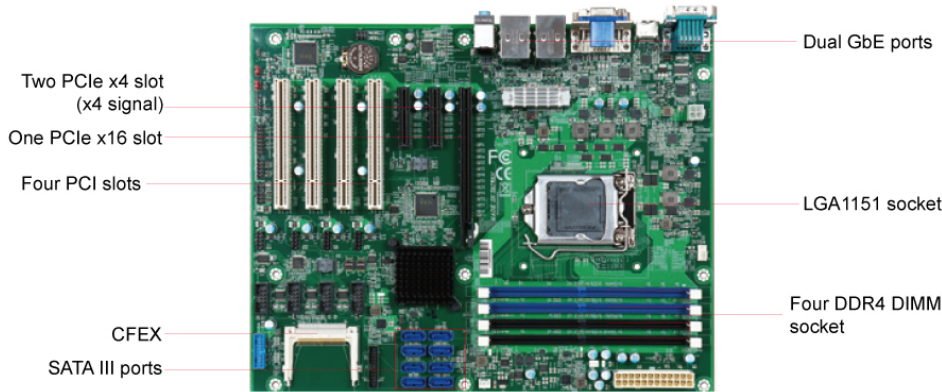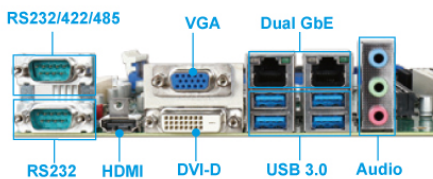
Portwell's RUBY-D718VG2AR features the Intel® Q170 chipset and the 6th generation Intel® Core™ processors in an LGA1151 socket. The processors support two-channel DDR4 DIMMs and PCI Express 3.0 to provide fast memory and I/O performance. On the other hand, it equipped six COM ports is capable of providing multiple controls for legacy systems. RUBY-D718VG2AR is suitable for medical, industrial automation, and digital signage application.

FEATURES

- Intel® 6th generation Core™ processors
- Supports four DDR4 2133/1866 Long- DIMM up to 64GB
- Supports Triple display by VGA, DVI-D, and HDMI
- Supports six SATA III ports
- Supports six Com ports
- Supports one PCIe x16, two PCIe x4, and four PCI

REAR I/O

RS232/422/485   VGA   Dual GbE
RS232   HDMI   DVI-D   USB 3.0   Audio

ORDERING GUIDE

(R).RUBY-D718VG2AR
ATX.IMB.LGA1151.CPU.Q170.DDR4/VGA/HDMI/DVI/Dual GbE/COM/Audio/USB

PACKING LIST

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

GENERAL

Processor	Intel® 6th Gen Core™ Processors in LGA1151 package
Chipset	Intel® Q170 / C236 PCH
BIOS	AMI uFEI BIOS (SPI ROM)
Memory	Four DDR4 2133/1866 Long-DIMM up to 64GB non-ECC memory
Storage Devices	-6x SATA III ports (Q170 PCH) -8x SATA III ports (C236 PCH)
Watchdog Timer	Programmable by embedded controller
Hardware Monitoring	System monitor voltage, fan speed, and temperature
Expansion Interface	- 1x PCIe x16 Gen3 - 2x PCIe x4 Gen3 - 4x PCI

I/O INTERFACE

Super I/O(Embedded Controller)	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
Keynoard & Mouse	PS/2 Keyboard & Mouse Pin Header
GPIO	8-bit configurable controlled by embedded controller
Others	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: one DVI-D port on rear I/O, up to 1920x1200@60Hz - HDMI: one HDMI port on rear I/O, up to 4096x2160 @ 24Hz - VGA: one VGA port on rear I/O, up to 1920x1200 @ 60Hz

Mechanical & Environment

Dimension	- 304.8(L) x 243.8(W);12"(L) x 9.6"(W)
Power Supply	24 Pin ATX power input
Environment	- Operation temperature: 0°C~60°C - Storage temperature: -20°C~80°C - Relative humidity: 5~95%, non-condensing
MTBF	Over 120,000 hours at 40°C