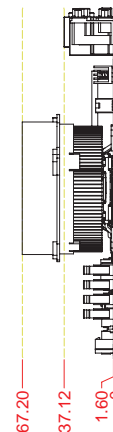
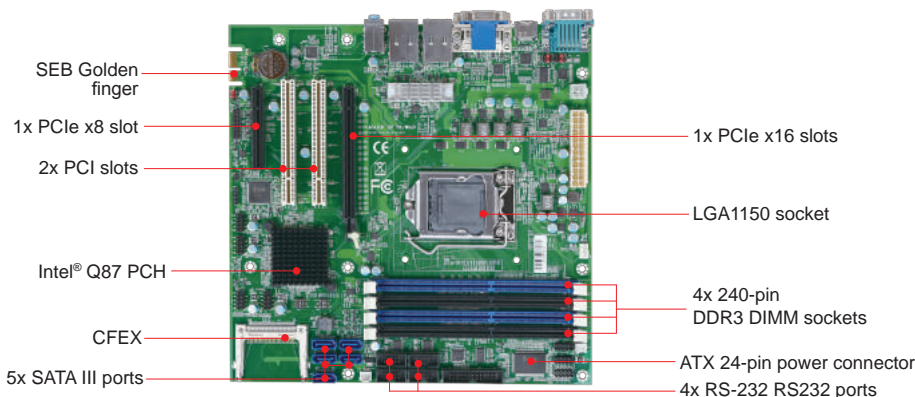




# RUBY-D720VG2AR

Intel® Core™ i5/i7 processor based μATX with DDR3 SDRAM, Triple display, Dual Gigabit Ethernet, and USB Ports

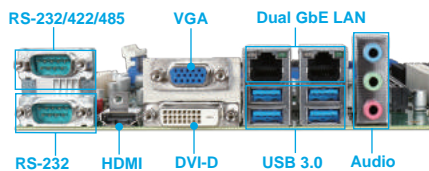


RUBY-D720VG2AR is based on Intel® Q87 chipset and desktop processor sku like Core™ i7 and i5. Build with PCI and PCI Express expansions, it is suitable for Medical, Industrial automation, and digital signage applications.

## FEATURES

- Intel® Core™ i5 and i7 processor support
- 4x Long-DIMMs support dual channel DDR3 SDRAM up to 32GB
- Rear I/O, USB2.0/3.0, dual Gigabit Ethernet, COM Port and SATA III ports support Intel RAID 0, 1, 5, 10.
- 1x PCIe x16 (Gen3), 1x PCIe x8 (Gen2, x4 signal), 1x PCIe x1 Golden finger and 2x PCI slot.
- Intel® Active Management Technology 9.0

## REAR I/O



## ORDERING GUIDE

<b>AB1-3B15</b>	(R).RUBY-D720VG2AR Micro-ATX.IMB.LGA1150.CPU.Q87.DDR3/ VGA/HDMI/DVI/Dual GbE/COM/Audio/USB
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## PACKING LIST

One RUBY-D720VG2AR ATX Industrial Main Board
One Installation DVD
One SATA III cable
One I/O shield

## GENERAL

Processor	- Intel® Core™ i5/i7 processor up to 3.4 GHz with (3~8MB) Cache in LGA-1150 package - DMI x4 Link: 5.0GT/s - Support Intel® Turbo Boost, Hyper-Threading, Virtualization, Thermal Monitoring, Trusted Execution and SpeedStep Technology (depends on CPU sku)
Chipset	Intel® Q87 PCH
BIOS	AMI BIOS
Memory	Support up to 32GB DDR3 1333/1600 MT/s SDRAM on 4x 240-pin DIMM sockets (dual channel)
Storage Devices	- Support 5x SATA III - Support 1x CFEF slot - Support RAID 0,1,5,10
Watchdog Timer	Programmable via S/W from 0.5 sec. to 254.5 sec.
Expansion Interface	- 1x PCIe 3.0 x16 slot - 1x PCIe 2.0 x8 slot (PCIe x4 signal) - 2x PCI devices at 32 bit 33 MHz - 1x PCIe x1 Golden finger

## I/O INTERFACE

Super I/O	ITE IT8728F
Audio	- Intel® Q87 PCH built-in High Definition Audio up to 192-Khz 32-bit - Realtek ALC892 HDA codec
Ethernet	- Intel® WGI218LM + WGI210AT gigabit ethernet controller - Dual 10BASE-T / 100BASE-TX / 1000BASE-T Etherne - 2x RJ-45 connector with 2x LED indicators
Serial Port	- 1x RS-232 on rear I/O - 1x RS-232/422/485 selectable port on rear I/O - 4x RS-232 with header
USB	- 4x USB 3.0 Ports on rear I/O - 8x USB 2.0 Ports on board
Keyboard & Mouse	PS/2 on board dedicated to keyboard & mouse
GPIO	On board programmable 8-bit Digital I/Os

## DISPLAY

Graphic Controller	- Intel® Core™ i5/i7 processors integrated graphic engine - Provided improved 3D multimedia capabilities including Microsoft DirectX 11.1, Shader Model 4.0, MPEG-2 and OpenGL® 3.2
Display Interface	- VGA: up to 2560x1600 @ 60Hz - DVI-D: up to 1920x1200 @ 60Hz - HDMI: up to 1920x1200 @ 60Hz - Support Triple Display

## Mechanical & Environment

Dimension	- 243.8mm(L) x 243.8mm(W) ; 9.6"(L) x 9.6"(W) - PCB: 6 layers
Power Supply	ATX 24-pin power input
Environment	- Operation Temperature: 0°C~60°C (with highest performance on 50 °C) - Storage Temperature: -20°C~80°C - Relative Humidity: 5%~90%, non-condensing
Certification	CE,FCC Class A
MTBF	Over 120,000 hours at 40°C

