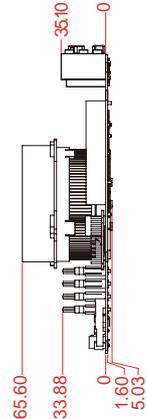
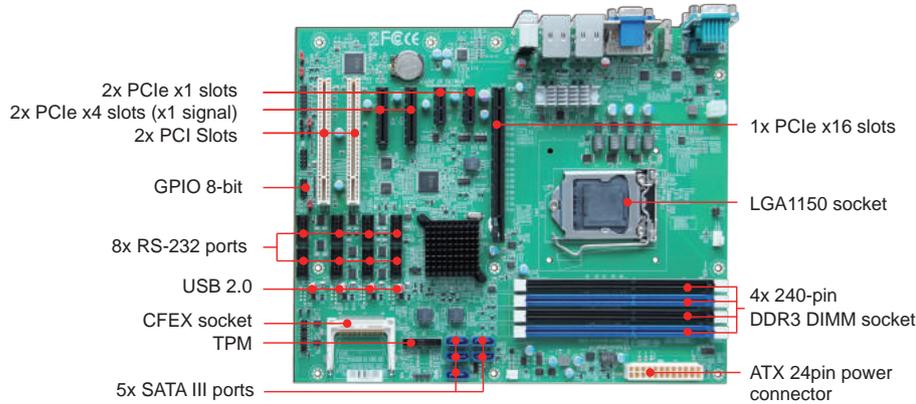


# RUBY-D716VG2AR

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

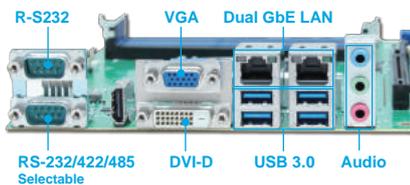


RUBY-D716VG2AR is based on Intel® Q87 chipset and desktop processor sku like Core™ i7 and i5. Build with PCI and PCI Express expansions, it is suitable for Medical, Industrial automation, and digital signage applications.

## FEATURES

- Intel® Core™ i5 and i7 processor support
- 4x Long-DIMMs support dual channel DDR3 non-ECC SDRAM up to 32GB
- Triple display by VGA/DVI-D/HDMI
- 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), 2x PCIe x4 (Gen2, x1 signal), 2x PCIe x1 (Gen2), and 2x PCI slot.
- Intel® Active Management Technology 9.0

## REAR I/O



## ORDERING GUIDE

<b>AB1-3941</b>	<b>RUBY-RUBY-D716VG2AR</b> ATX IMB. LGA1150 CPU. Q87. DDR3/VGA/DVI-D/HDMI/Dual GbE/COM/Audio/USB
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## PACKING LIST

One RUBY-D716VG2AR ATX Industrial Main Board
One SATA III Cable
One Installation DVD
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	Phoenix UEFI 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 CFEX 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 - 2x PCIe 2.0 x 4 slot (PCIe x1 signal) - 2x PCIe 2.0 x1 slot - 2x PCI devices at 32 bit 33 MHz

## I/O INTERFACE

Embedded Controller	ITE IT8518
Audio	- Intel® Q87 PCH built-in High Definition Audio up to 192-Khz 32-bit - Realtek ALC886-GR HDA codec
Ethernet	- Intel® WGI217LM + WGI210AT GbE controller - Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet - PCIe x1 interface based on GbE - 2x RJ-45 connector with two LED indicators
Serial Port	- 4x RS-232 - 2x RS-232/422/485 (support BIOS switch) - 4x RS-232 optional (up to total 10x COM port)
USB	- 4x USB3.0 Ports on real I/O - 8x USB2.0 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	304.8mm(L) x 243.8mm(W); 12"(L) x 9.6"(W) PCB: 6 layers
Power Supply	ATX 24-pin power input
Environment	- Operation Temperature: 0°C-60°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

