RUBY-D712VG2AR
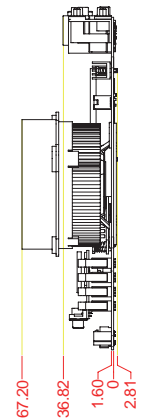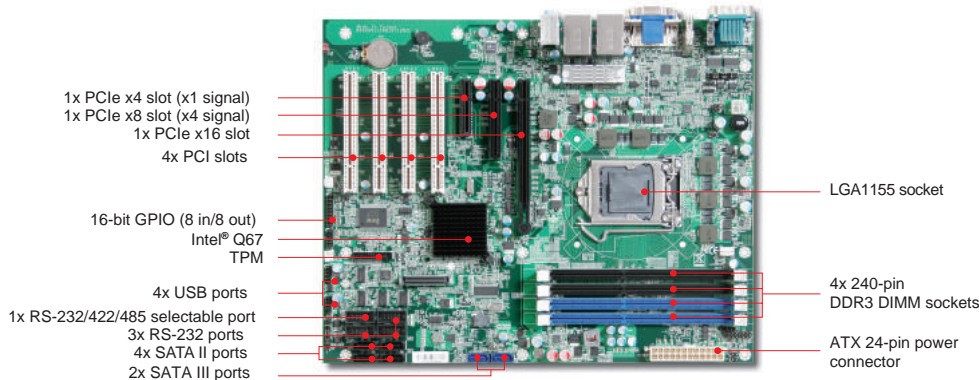
Intel® Core™ i5 and i7 processor based ATX with DDR3 SDRAM, Dual Display, Dual Gigabit Ethernet and USB Ports

- 1x PCIe x4 slot (x1 signal)
- 1x PCIe x8 slot (x4 signal)
- 1x PCIe x16 slot
- 4x PCI slots
- 16-bit GPIO (8 in/8 out)
- Intel® Q67
- TPM
- 4x USB ports
- 1x RS-232/422/485 selectable port
- 3x RS-232 ports
- 4x SATA II ports
- 2x SATA III ports

- LGA1155 socket
- 4x 240-pin DDR3 DIMM sockets
- ATX 24-pin power connector
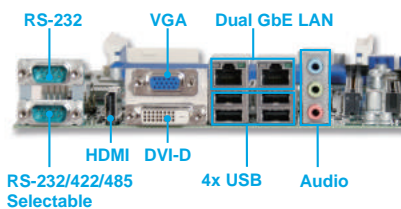
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With the Intel® Q67 chipset on board, the RUBY-D712VG2AR supports the latest quad-core 2nd Generation Intel® Core™ i7 and Core™ i5 processors. This model is also ideal for Factory Automation, Medical, Gaming, Digital Signage, Surveillance Security Monitoring and Kiosk with high performance requiring various I/O connectors.

FEATURES

- Intel® Core™ i7 and i5 Processors (Quad Core™ CPU support)
- 4x Long-DIMMs support dual channel DDR3 non-ECC SDRAM up to 32GB
- Dual Display by VGA/DVI/ HDMI
- SATA ports support Intel® RAID 0,1,5,10
- 1x PCIe x16, 1x PCIe x8 (x4 signal), 1x PCIe x4 (x1 signal) and 4x PCI slots
- Intel® Active Management Technology 7.0

REAR I/O

- RS-232
- VGA
- Dual GbE LAN
- HDMI
- DVI-D
- RS-232/422/485 Selectable
- 4x USB
- Audio

ORDERING GUIDE

AB1-3634	**RUBY-D712VG2AR** ATX IMB. LGA1155 CPU. Q67. DDR3/VGA/DVI/ HDMI/Dual GbE/COM/Audio/USB

PACKING LIST

One RUBY-D712VG2AR ATX Industrial Main Board
One SATA II Cable
One Installation CD
One I/O shield

DDR 3 SATA 6Gb Watch DOG SMBus H/W Monitor GPIO Giga LAN HDMI

GENERAL

Processor	- Intel® Core™ i7/i5 processor up to 3.4GHz with (3~8MB) Cache in LGA1155 package - DMI x4 Link: 5.0 GT/s - Supports Intel® Turbo Boost, Hyper-Threading, Virtualization, Thermal Monitoring and Trusted Execution (depend on CPU sku)"
Chipset	Intel® Q67 PCH chipset (6.1W)
BIOS	AMI UEFI BIOS
Memory	Supports up to 32GB DDR3 1333/1066 MT/s SDRAM on 4x 240-pin non-ECC DIMM sockets (dual channel)
Storage Devices	- 2x SATA III - 4x SATA II - RAID 0,1,5,10
Watchdog Timer	Programmable via S/W from 0.5 sec. to 255 min.
Hardware Monitoring	- System monitor (fan, temperature, voltage) - Temperature (CPU & System) - Voltage (CPU Vcore, 5VSB, 12V, 5V, 3.3V)
Expansion Interface	- 1x PCIe 2.0 x4 slot (PCIe x1 signal) - 1x PCIe 2.0 x8 slot (PCIe x4 signal) - 1x PCIe 2.0 x16 slot - 4x PCI 32-bit slots

I/O INTERFACE

Super I/O	ITE IT8728F
Audio	- Intel® BD82Q67 PCH built-in High Definition Audio up to 96-Khz 24-bit -Realtek ALC662-GR HDA codec -Audio Jack DIP Light Pink/Lime/Light Blue
Ethernet	- Intel® 82574L and Intel® 82579LM dual gigabit ethernet controllers - 2x RJ-45 connectors with two LED indicators at rear I/O panel
Serial Port	- 3x RS-232 on board and 1x RS-232/422/485 selectable on board - 1x RS-232 on rear I/O and 1x RS-232/422/485 selectable on rear I/O
USB	- 4x USB 2.0 ports on rear I/O 4x USB 2.0 ports on borad with pitch 2.54 header - 480 Mb/s bus comprehends the high-speed/full-speed/low-speed data ranges
Keyboard & Mouse	PS/2 on board dedicated to keyboard & mouse
GPIO	On board programmable 16-bit Digital I/Os

DISPLAY

Graphic Controller	- Intel® HD Graphics 2000/3000 integrated Graphics Engine, provides a visually stunning experience optimized for Blu-ray and HD video HDMI - Chrontel: CH7318B QFN-48
Display Interface	- VGA: up to 2048x1536 @75Hz - DVI-D: up to 1920x1200 @60Hz - HDMI: up to 1920x1200 @60Hz

Mechanical & Environment

Dimension	304.8mm(L) x 243.8mm(W); 12"(L) x 9.6"(W)
Power Supply	- Typical: +12V(CPU)@3.81A; +12V(System)@2.21A; +5V@2.3A; +3.3V@1.15A - Supports ATX mode
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