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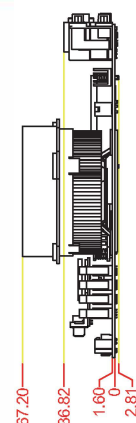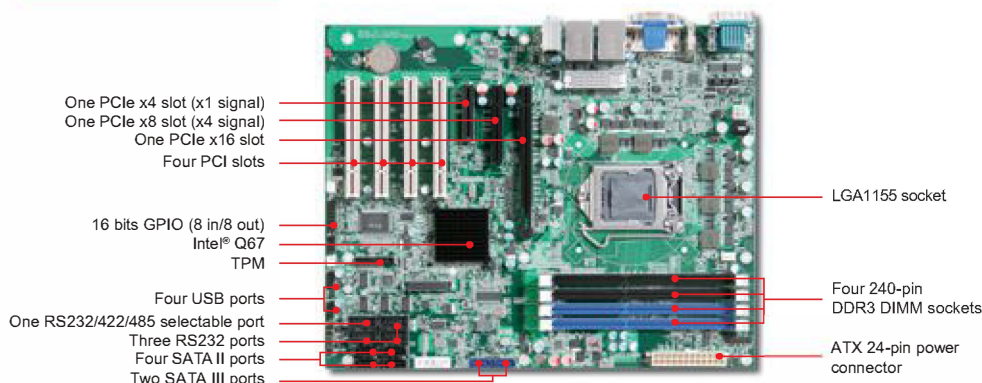
Intel® Core™ i5 and i7 processor based ATX with DDR3 SDRAM, Dual Display, Dual Gigabit Ethernet and USB Ports

One PCIe x4 slot (x1 signal)
One PCIe x8 slot (x4 signal)
One PCIe x16 slot
Four PCI slots

16 bits GPIO (8 in/8 out)
Intel® Q67
TPM

Four USB ports
One RS232/422/485 selectable port
Three RS232 ports
Four SATA II ports
Two SATA III ports

LGA1155 socket

Four 240-pin DDR3 DIMM sockets

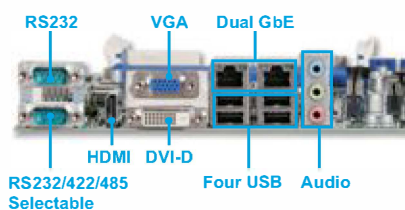ATX 24-pin power connector

67.20 36.82 1.60 0 2.81

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)
- Four 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
- One PCIe x16, one PCIe x8 (x4 signal), one PCIe x4 (x1 signal) and four PCI slots
- Intel® Active Management Technology 7.0

REAR I/O

RS232   VGA   Dual GbE

HDMI DVI-D   Four USB   Audio

RS232/422/485 Selectable

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

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 support 6Gb/s data transfer rate - 4x SATA support 3Gb/s data transfer rate - 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 PCI Express x4 slot (Gen2, 5.0 GT/s) - 1x PCI Express x8 slot (Gen2, 5.0 GT/s) - 1x PCI Express x16 slot (Gen2, 5.0 GT/s) - 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 5.1 Channel High Definition Audio 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 RS232 on board and 1x RS232/422/485 selectable on board - 1x RS232 on rear I/O and 1x RS232/422/485 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: Resolution up to 2048x1536 @75Hz - DVI-D: up to 1920x1200 @60Hz - HDMI: up to 1920x1200 @60Hz

Mechanical & Environment

Dimension	304.8(L) x 243.8(W)mm; 9.6''(L) x 12''(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 to 60°C - Storage Temperature: -20°C to 80°C - Relative Humidity: 5% to 95%, non-condensing
MTBF	Over 120,000 hours at 40°C

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

HDMI   FC   CE   Microsoft Windows Embedded Partner   RoHS