RUBY-9716VG2AR

Intel® Core™ 2 Quad processor based ATX Industrial Mainboard with DDR2 SDRAM, VGA, Dual Gigabit Ethernet, Audio and USB

- One PCIe x16 expansion slot
- One PCIe x4 expansion slot
- One RS232 selectable port
- Four PCI expansion slots
- Intel® ICH8DO
- Four USB ports
- Two RS232 Power selectable ports
- Five SATA II ports
- Ten programmable GPIO ports
- CompactFlash socket
- Front panel I/O
- ATX V2.2 24-pin power connector
- LGA775 socket
- Intel® Q965
- Four 240-pin DDR2 DIMM sockets
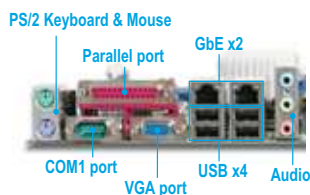- IDE connector
- FDD port

RUBY-9716VG2AR is based upon the Intel® Q965 chipset with five SATA II ports together, one IDE channel and CF socket which is a perfect combination for storage interfaces for kinds of applications; supports Intel® Matrix Storage Technology.

FEATURES

- Intel® mainstream desktop processors - Core™ 2 Quad, Core™ 2 Duo, Pentium® D, Pentium® 4,Celeron® D processor in LGA775 package

- One PCI Express x16 slot features high-end graphics card connection interface or dual independent display with ADD2+ media card that provides TV tuner, video capture in and DVI, TV-out

- One PCI Express x4 slot for storage add-in card which provides reliable and safer data storage with adequate I/O throughput

- Five SATA II ports together with one IDE channel and CF socket are perfect combination

REAR I/O

- PS/2 Keyboard & Mouse
- Parallel port
- GbE x2
- COM1 port
- VGA port
- USB x4
- Audio

ORDERING GUIDE

AB1-3041	RUBY-9716VG2AR.Socket LGA775.Intel Q965. Core 2 Duo.IMB.w/VGA/2xGbE/Audio

PACKING LIST

One RUBY-9716VG2AR ATX Industrial Main Board
One SATA II Cable
One Installation CD
One I/O shield

GENERAL

Processor	- Intel® Core™ 2 Quad/Core™ 2 Duo Pentium® D/Pentium® 4/Celeron® D Processor with 2MB L2 Cache in LGA775 package - FSB: 1066/800MHz - Supports Enhanced Intel® SpeedStep® Technology, Intel® 64 architecture, Execute Disable Bit (Core™ 2 Duo only)
Chipset	Intel® Q965 Graphics and Memory Controller Hub (28W)+ICH8DO
BIOS	Award BIOS
Memory	Supports up to 8GB DDR2 533/667/800MHz SDRAM on four 240-pin DIMM sockets
Storage Devices	- 1x EIDE connector supports Ultra DMA100/66/33MB/s - 5x SATA support 3Gb/s data transfer rate and 1x FDD channel - 1x CompactFlash connector supports Ultra DMA100/66/33MB/s (share with IDE channel)
Watchdog Timer	Programmable via S/W from 1 sec. to 255 min.
Hardware Monitoring	- System monitor (fan, temperature, voltage) and Temperature (CPU & System) - Voltage (CPU Vcore, 5VSB, 12V, 5V, 3.3V)
Expansion Interface	- 1x PCI Express x4 slot for x1 or x4 card (Gen 1, 2.5 GT/s) - 1x PCI Express x16 slot for PCIe x16 or PCIe x1 or ADD2/+ card (Gen 1, 2.5 GT/s) - 4x PCI 32-bit slots

I/O INTERFACE

Super I/O	Winbond W83627HG-AW
Audio	- Intel® Q965 built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC262-VC2 LQFP48 codec, 2+2 channels - Audio Jack DIP Light Pink/Lime/Light Blue
Ethernet	- Intel® 82573L and Intel® 82566DM dual gigabit ethernet controllers - 2x RJ-45 connectors with two LED indicators at rear I/O panel - PCI Express x1 interface based Gigabit Ethernet
Serial Port	- 1x RS232/TTL selectable on rear I/O panel - 2x RS232 Power selectable on board and 1x RS232/422/485 selectable on board
USB	- 4x USB 2.0 ports on rear I/O and 4x USB 2.0 ports on borad - 480 Mb/s bus comprehends the high-speed/full-speed/low-speed data ranges
Keyboard & Mouse	1x PS/2 Keyboard & Mouse on rear I/O
GPIO	On board programmable 10-bit Digital I/Os
Other	1x parallel port on rear I/O

DISPLAY

Graphic Controller	- Intel® Q965 Graphics and Memory Controller Hub integrated Intel® Graphics Media Accelerator 3000 (Intel GMA 3000), providing a visually stunning experience optimized for Blu-ray and HD video - Supports dual independent display with ADD2/+ card
Display Interface	- VGA: Resolution up to 2048x1536 @75Hz - DVI-D: up to 1600x1200 @60Hz

Mechanical & Environment

Dimension	304.8(L) x 243.8(W)mm; 12"(L) x 9.6"(W)
Power Supply	- Typical: +12V@6.5A; +5V@5.95A; +3.3V@3A - Supports ATX mode
Environment	- Operation Temperature: 0°C to 55°C - Storage Temperature: -20°C to 80°C - Relative Humidity: 5% to 90%, non-condensing
MTBF	Over 150,000 hours at 40°C