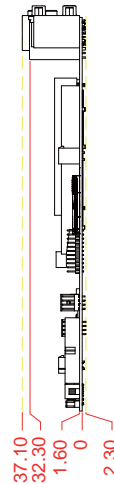
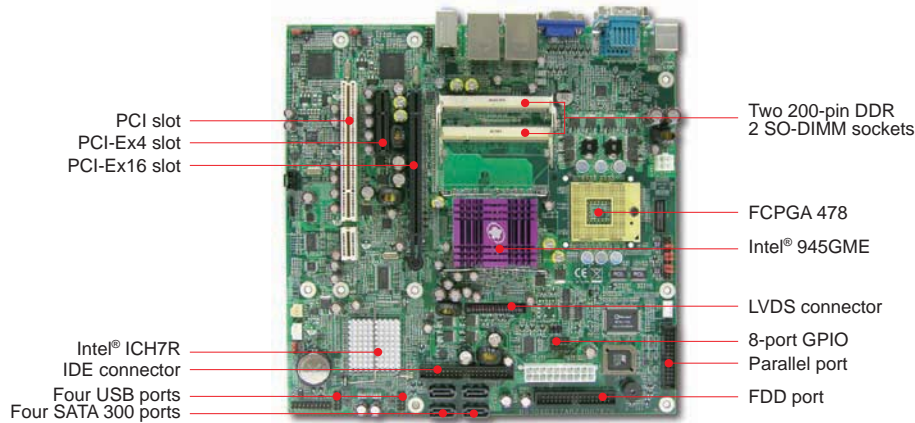




# RUBY-9713VG2AR

Intel® Core™ 2 Duo processor based  
Micro-ATX Industrial Mainboard with  
DDR2 SO-DIMM, VGA, Dual Gigabit  
Ethernet, Audio and USB

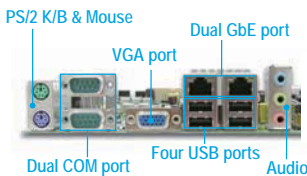


RUBY-9713VG2AR based on industrial mainboard in uATX form factor supports all Intel® Core™ 2 Duo, Core™ Duo, Core™ Solo processor for MoDT (Mobile on Desktop) applications that require various I/O connectors.

## FEATURES

- Industrial mainboard in uATX form factor supports all Intel® Core™ 2 Duo, Core™ Duo, Core™ Solo processor for MoDT (Mobile on Desktop) application
- One 32-bit PCI expansion slot or supports up to four PCI slots by riser card
- One PCI-Express x4 slot or supports up to four PCI Express x1 slot by riser card
- Support GPIO and LVDS on board
- Adopts Intel Matrix Storage Technology to support RAID 0/1/5/10
- Dual Gigabit Ethernet ports based on PCI Express x1 interface without sharing bandwidth of PCI expansion bus

## REAR I/O



## ORDERING GUIDE

<b>AB1-3016</b>	RUBY-9713VG2AR.Micro ATX.Intel 945GM.P4.w/ VGA/Dual LAN/Audio/4xChannel
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## PACKING LIST

One RUBY-9713VG2AR Micro-ATX Industrial Main Board
One SATA II Cable
One Installation CD
One I/O shield



## GENERAL

Processor	- Intel® Core™ 2 Duo, Core™ Duo, Core™ Solo Processor with up to 4/3/2 MB L2 Cache in socket 478 - FSB: 667/533MHz - Support Enhanced Intel SpeedStep® Technology, Intel® 64 architecture, Execute Disable Bit (Core™ 2 Duo only)
Chipset	Intel® 945GME Graphics and Memory Controller Hub (7W)+ICH7R
BIOS	Award BIOS
Memory	Support up to 4GB DDR2 533/667MHz SDRAM on two 200-pin SODIMM sockets
Storage Devices	- 1x EIDE connector supports Ultra DMA100/66/33MB/s - 4x SATA 300 drivers support 3Gb/s data transfer rate - RAID 0,1,5,10 - 1x FDD 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 or support up to four PCI Express x1 slot by riser card (Gen1, 2.5 GT/s) - 1x PCI Express x16 slot (Gen1, 2.5 GT/s) - 1x PCI 32bit slot or support up to four PCI slots by riser card

## I/O INTERFACE

Super IO	Winbond W83627THG
Audio	- Intel® 945GME built-in AC'97 Audio up to 96-kHz 18bit - Realtek ALC202A-LF LQFP48 codec, 2.2 channels - Audio Jack DIP Light Pink/Lime/Light Blue
Ethernet	- Intel® 82573Lx2 dual gigabit ethernet controllers - 2x RJ-45 connectors with two LED indicators at rear I/O panel
Serial Port	- 1x RS232 on rear IO - 1x RS232/422/485 selectable on rear IO
USB	- 4x USB 2.0 ports on rear IO and 4x USB 2.0 ports on board with pitch 2.0 header - 480 Mb/s bus comprehends the high-speed / full-speed / low-speed data ranges
Keyboard & Mouse	1x PS/2 Keyboard & Mouse on rear IO
GPIO	On board programmable 8-bit Digital I/Os
Other	1x parallel port on board box header

## DISPLAY

Graphic Controller	- Intel® 945GME Graphics and Memory Controller Hub integrated Intel Graphics Media Accelerator 950 (Intel GMA 950), providing a visually stunning experience optimized for Blu-ray™ and HD video - Intel® Dynamic Video Memory Technology (Intel® DVMT 3.0)
Display Interface	- VGA: Resolution up to 2048x1536 @75Hz - LVDS: up to 1600x1200 @60Hz

## Mechanical & Environment

Dimension	243.8(L) x 243.8(W) mm; 9.6"(L) x 9.6"(W)
Power Supply	- Typical: +12V(CPU)@3A; +12V(System)@1A; +5V@2.5A; +3.3V@1.5A - Support 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 120,000 hours at 40°C