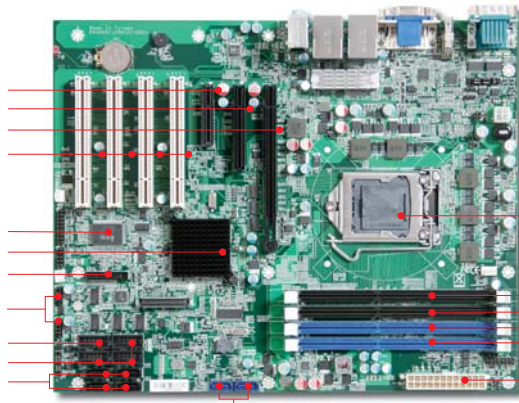# RUBY-D711VG2AR

Intel® Core™ i3 and Xeon® processor based ATX with DDR3 SDRAM, Dual Display, Dual Gigabit Ethernet and USB Ports
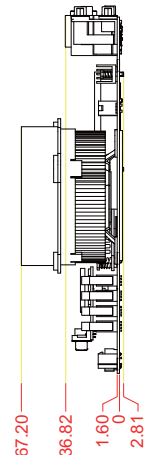

- One PCIe x4 slot (x1 signal)
- One PCIe x8 slot (x4 signal)
- One PCIe x16 slot
- Four PCI slots
- 16 bits GPIO (8 in/8 out)
- Intel® C206
- TPM
- Four USB ports
- One RS232/422/485 selectable port
- Three RS232 ports
- Four SATA II ports
- Two SATA III ports
- LGA1155 socket
- Four 240-pin DDR3 DIMM sockets
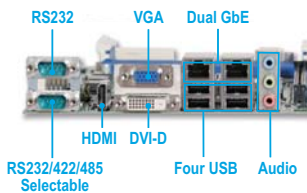- ATX 24-pin power connector

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On the basis of Intel® C206 Chipset, RUBY-D711VG2AR supports the latest quad-core 2nd Generation Intel® Core™ i3 and Xeon® processors and provides numerous I/O connectors and also applies high performance in such areas as factory automation, medical, gaming, digital signage, surveillance security monitoring and kiosk.

FEATURES

- Intel® Core™ i3 and Xeon® E3-1200 series Processors (Quad Core CPU support)
- Four Long-DIMMs support dual channel DDR3 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
RS232/422/485 Selectable   Four USB   Audio

ORDERING GUIDE

AB1-3633	RUBY-D711VG2AR. ATX IMB. C206 w/ECC LGA1155.w/DDR3 DIMMs/ VGA/LVDS/DVI/HDMI/Dual GbE/COM/Audio/USB

PACKING LIST

One RUBY-D711VG2AR ATX Industrial Main Board
One SATA II Cable
One Installation CD
One I/O shield

GENERAL

Processor	- Intel® Core™ i3 and Xeon® E3-1200 series processor up to 3.4GHz (65~95W) 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® C206 PCH chipset (6.6W)
BIOS	AMI UEFI BIOS
Memory	Supports up to 32GB DDR3 1333/1066 MT/s SDRAM on 4x 240-pin ECC/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® BD82C206 built-in High Definition Audio up to 192-kHz 32-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 one LED indicators at rear I/O panel
Serial Port	- 3x RS232 on board and 1x RS-232/422/485 selectable on board - 1x RS232 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 and 4x USB 2.0 ports on board with pitch 2.54 header - 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 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	243.8(L) x 304.8(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   H/W Monitor   GPIO   SMBus   Giga LAN

HDMI   FC   CE   Microsoft Windows Embedded Partner   RoHS