RUBY-D715VG2AR

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

- Four PCI slots
- One PCIe x4 slot
- Two PCIe x16 slots (x16 signal or 2 x8 signal)
- Intel® C216
- Six USB 2.0
- CFEX
- TPM slot
- Two SATA III ports
- LGA1155 socket
- Four 240-pin DDR3 DIMM sockets
- ATX 24-pin power connector
- Three SATA II ports

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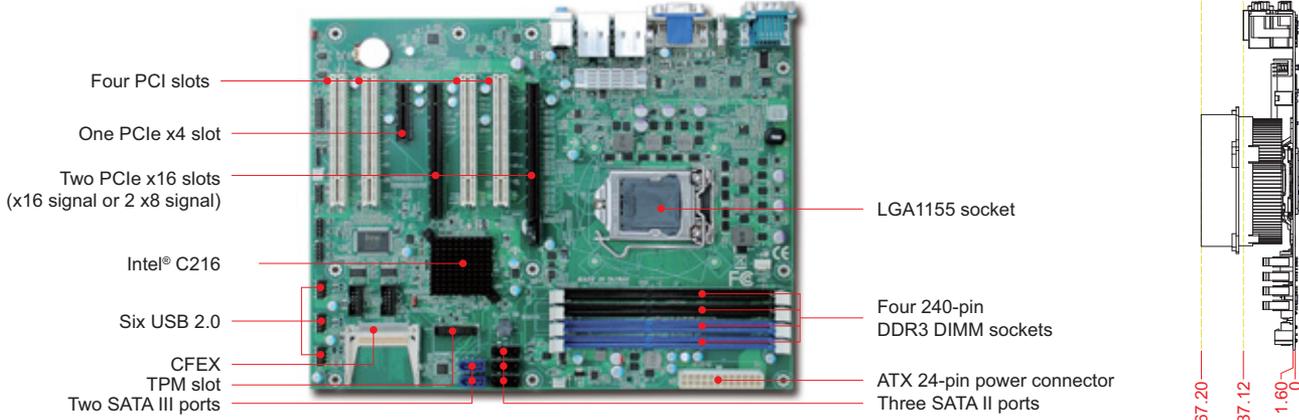
RUBY-D715VG2AR is based on Intel® C216 chipset and workstation sku like Core™ i3 and Xeon® E3-1200 series processors. Built with flexible PCI express expansion and bifurcation feature, it can support two I/O interface cards and can also suitable for Medical, Industrial Automation, and Digital Signage applications.

FEATURES

- Intel® Core™ i3 and Xeon® E3-1200 series processors support
- Four Long-DIMMs support dual channel DDR3 ECC and non-ECC SDRAM up to 32 GB
- Dual display by VGA/DVI-D/HDMI
- Rich I/O, USB 2.0/3.0, dual Gigabit Ethernet, COM ports and SATA II/III ports support Intel® RAID 0,1,5,10
- Two PCIe x16 slots (Gen 3, x16 signal or 2 x8 signal), one PCIe x4 (Gen 2), and four PCI slots
- One CFEX socket (supports CFEX card)
- Intel® Active Management Technology 8.0

REAR I/O

RS232 VGA Dual GbE
HDMI DVI-D Audio
RS232/422/485 Four USB 3.0
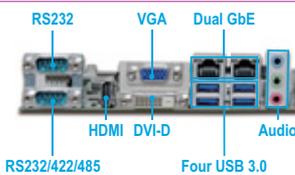
ORDERING GUIDE

AB1-3925	RUBY-D715VG2AR. ATX IMB. LGA1155 CPU. C216 DDR3/VGA/DVI/HDMI/Dual GbE/COM/Audio/USB
Standard	One SATA II cable
	One SATA III cable (Black)
	One Installation CD
	One I/O shield
	DVI-D + VGA cable with bracket
	PICMG SBC Handling and Installation Notice
	Installation CD

PACKING LIST

One RUBY-D715VG2AR ATX Industrial Main Board
One SATA III 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® C216 PCH chipset
BIOS	Pheonix UEFI BIOS
Memory	Supports up to 32GB DDR3 ECC and non-ECC 1333/1600 SDRAM on four 240-pin DIMM sockets (dual channel)
Storage Devices	- 2x SATA support 6Gb/s data transfer rate - 3x SATA support 3Gb/s data transfer rate - Supports RAID 0,1,5,10 - 1x CFEX (supports CFEX card)
Watchdog Timer	Programmable via S/W from 0.5 sec. to 255 sec.
Hardware Monitoring	On board fan connector (CPU Cooler x1, System Fan x1); temperature and voltages monitoring
Expansion Interface	- 2x PCI Express x16 slots (Gen 3, 8.0 GT/s, x16 signal or 2 x8 signal) - 1x PCI Express x4 slot (Gen 2, 5.0 GT/s) - 4x PCI devices at 32-bit 33 MHz

I/O INTERFACE

Super I/O	ITE IT8783F
Audio	- Intel® C216 PCH built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC886-GR HDA codec, 5.1 channels - Audio Jack DIP Light Pink/Lime/Light Blue
Ethernet	- Intel® 82579LM and 82583V dual gigabit ethernet controllers - PCI Express x1 interface based on gigabit ethernet - Dual RJ-45 connectors with two LED indicators at rear I/O panel
Serial Port	- 3x RS232 and 1x Selectable RS232/422/485 on board - 1x RS232 and 1x Selectable RS232/422/485 on rear I/O
USB	- 4x USB 3.0 ports on rear I/O (5 Gbps) - 6x USB 2.0 ports on board (480 Mb/s)
Keyboard & Mouse	PS/2 on board dedicated to keyboard & mouse
GPIO	On board programmable 8-bit Digital I/Os

DISPLAY

Graphic Controller	- Quad Core™ Processor with Intel® HD Graphics 4000 and Integrated Memory Controller - Provided improved 3D multimedia capabilities including Microsoft DirectX 11, Shader Model 4.0, MPEG-2 and OpenGL 3.1
Display Interface	- VGA: Resolution up to 2560x1600 @60Hz - DVI-D: up to 1920x1200 @60Hz - HDMI: up to 1920x1200 @60Hz

Mechanical & Environment

Dimension	- 304.8(L) x 243.8(W)mm; 12"(L) x 9.6"(W) - PCB: 6 layers
Power Supply	ATX 24-pin power input
Environment	- Operation Temperature: 0~60 °C (with highest performance on 50 °C) - Storage Temperature: -20~80 °C - Relative Humidity: 5~95%, non-condensing
MTBF	Over 120,000 hours at 40°C