RUBY-D720VG2AR
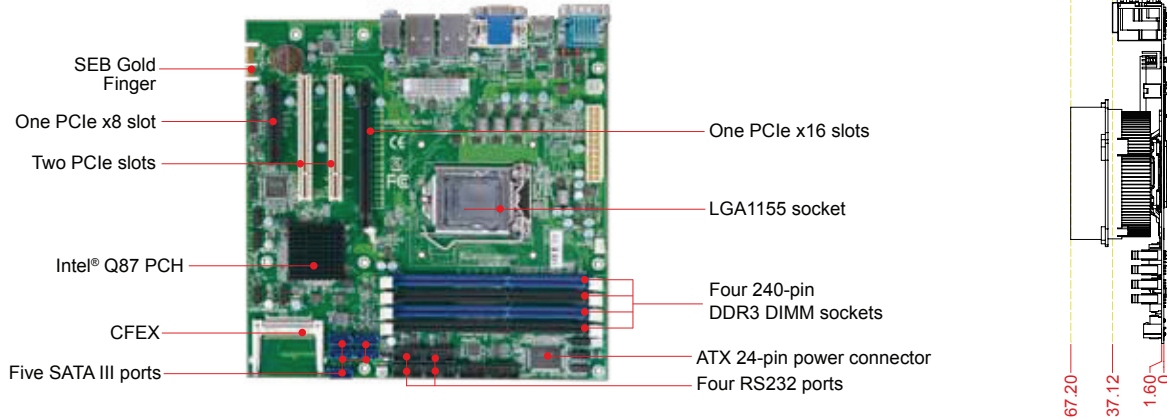
Intel Core 4th generation family by LGA1150 package μATX with DDR3 SDRAM, Triple display, Dual Gigabit Ethernet, and USB Ports

- SEB Gold Finger
- One PCIe x8 slot
- Two PCIe slots
- Intel® Q87 PCH
- CFEX
- Five SATA III ports
- One PCIe x16 slots
- LGA1155 socket
- Four 240-pin DDR3 DIMM sockets
- ATX 24-pin power connector
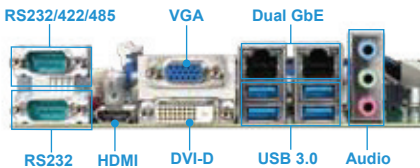- Four RS232 ports

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RUBY-D720VG2AR is based on Intel® Q87 chipset and desktop processor sku like Core Intel Core 4th Gen. Build with PCI and PCI Express expensions, it is suitable for Medical, Industrial automation, and digital signage ap-plications.

FEATURES

- Intel Core 4th generation family by LGA1150 package
- Four Long-DIMMs support dual channel DDR3 non-ECC SDRAM up to 32GB
- Rear I/O, USB2.0/3.0 dual Gigabit Ethernet, COM Port and SATA III ports support Intel RAID 0, 1, 5, 10.
- One PCIe x16 (Gen3), One PCIe x8 (Gen2, x4 signal), One PICe x1 gold finger and two PCI slot.
- Intel® Active Management Technology 9.0

REAR I/O

RS232/422/485   VGA   Dual GbE

RS232   HDMI   DVI-D   USB 3.0   Audio

ORDERING GUIDE

AB1-3B15	(R).RUBY-D720VG2AR.Micro-ATX.IMB. LGA1150.CPU.Q87.DDR3/VGA/HDMI/DVI/Dual GbE/COM/Audio/USB

PACKING LIST

One RUBY-D716VG2AR ATX Industrial Main Board
One Installation DVD
One SATA III cable
One I/O shield

GENERAL

Processor	- Intel® Core™ 4th generation family by LGA1150 package processor - DMI x4 Link: 5.0GT/s - Support Intel® Turbo Boost, Hyper-Threading, Virtualization, Thermal Monitoring, Trusted Execution and SpeedStep Technology (depends on CPU sku)
Chipset	Intel® Q87 PCH
BIOS	AMI BIOS
Memory	Support up to 32GB DDR3 1333/1600 SDRAM on four 240-pin DIMM sockets (dual channel)
Storage Devices	- Support 5x SATA drives - Support 1x CFEX slot - Support RAID 0,1,5,10
Watchdog Timer	Programmable via S/W from 0.5 sec. to 254.5 sec.
Expansion Interface	- 1x PCI Express x16 Gen3 up to 8.0 GT/s - 1x PCI Express x8 (PCIe x4 signal Gen2 up to 5.0 GT/s) - 2x PCI devices at 32 bit 33 MHz - 1x PCIe x1 gold finger

I/O INTERFACE

Super I/O	ITE IT8728F
Audio	- Intel® Q87 PCH built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC892 HDA codec, 5.1 channels
Ethernet	- Intel® WGI218LM + WGI210AT gigabit ethernet controller - Dual 10BASE-T / 100BASE-TX / 1000BASE-T Etherne - Dual RJ-45 connector with two LED indicators
Serial Port	- 1x RS232 on rear I/O - 1x RS232/422/485 selectable port on rear I/O - 4x RS232 with header
USB	- 4x USB 3.0 Ports on rear I/O - 8x USB 2.0 Ports on board
Keyboard & Mouse	PS/2 on board dedicated to keyboard & mouse
GPIO	On board programmable 8-bit Digital I/Os

DISPLAY

Graphic Controller	- Intel® Core™ 4th gen. processors integrated graphic engine - Provided improved 3D multimedia capabilities including Microsoft DirectX 11.1, Shader Model 4.0, MPEG-2 and OpenGL 3.2
Display Interface	- VGA: Resolution up to 2560x1600 @ 60Hz - DVI-D: up to 1920x1200 @ 60Hz - HDMI: up to 1920x1200 @ 60Hz Support Triple Display

Mechanical & Environment

Dimension	- 243.8(L) x 243.8(W); 9.6"(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: 5~90%, non-condensing
MTBF	Over 120,000 hours at 40°C

DDR 3   SATA 6Gb   USB 3.0   H/W Monitor   HDMI   VGA   DVI-D