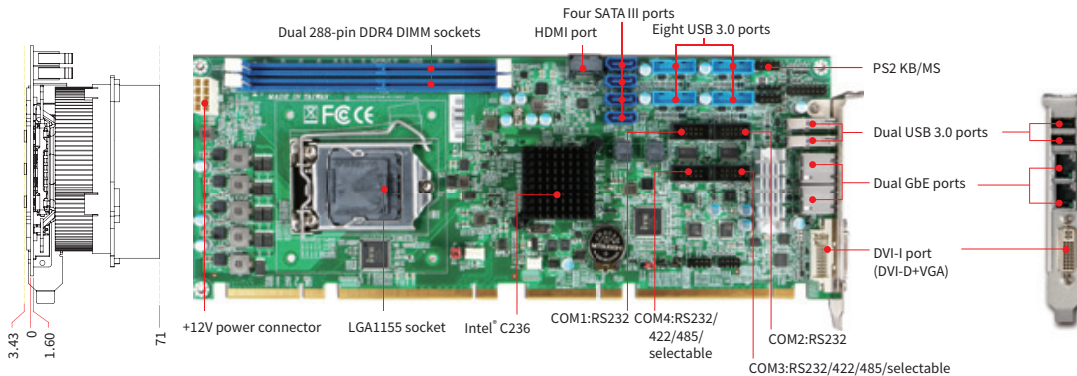


ROBO-8113VG2AR-C236



FEATURES

- Supports Intel® 6th Skylake-S Xeon® / Core™ i3 processors in LGA 1151 package
- Delivers up to 32GB maximum DDR4 2133 ECC DIMM on two sockets
- Supports multiple display by DVI-I (DVI-D+VGA) and HDMI
- High speed dual Gigabit Ethernet based on PCI express x 1, high bandwidth I/O interface
- Rich I/O connections such as four serials ports, USB 3.0/2.0, SATA III ports

GENERAL

- Processor
- Chipset
- BIOS
- Memory
- Storage Devices
- Watchdog Timer
- Hardware Monitoring
- Expansion Interface

- Intel® Xeon® E3-1200v5 series / Core™ i3 processors up to 3.6 GHz (35-80W) with (8MB) Cache in LGA-1151 package
- DMI x4 Link: 5.0GT/s
- Support Intel® Turbo Boost , Hyper-Threading, Virtualization, Thermal Monitoring, Trusted Execution and SpeedStep Technology (depends on CPU sku) Intel® C236 PCH
- Supports up to 32GB DDR4 2133/1866 SDRAM on two 288-pin DIMM sockets
- Supports ECC
- 6x SATAIII drives (Dual ports via Backplane)
- RAID 0, 1, 5, 10
- Programmable via S/W from 0.5 sec. to 254.5 sec
- System monitor (Voltage, Fan Speed and Temperature)
- From CPU (Xeon/Core i3): 1x PCI Express x16 or 2x PCI Express x8 or 1x PCI Express x8 + 2x PCI Express x4 by jumper setting (Gen3 up to 8.0 GT/s)
- From PCH: 1x PCI Express x4 or 4x PCI Express x1 by different bios support (Gen 3 up to 8.0 GT/s)

I/O INTERFACE

- Embedded Controller
- Audio
- Ethernet
- Serial Port
- USB
- Keyboard & Mouse
- GPIO

- ITE IT8528E
- Intel® PCH built-in High Definition Audio up to 192-kHz 32-bit
- Realtek ALC886-GR HDA codec, 5.1 channels
- one on-board audio pin header
- Intel® WGI219LM + WGI210AT gigabit ethernet controller
- Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet
- PCI Express x1 interface based on gigabit ethernet
- Dual RJ-45 connector with two LED indicators
- 2x RS232 ports
- 2x RS232/422/485 selectable
- LPC to COM port IC: Fintek F81216DG
- 2x USB 2.0 ports (through backplane)
- 480Mb/s bus capable of high-speed/full-speed/low-speed data ranges
- 10x USB 3.0 ports on board (eight ports on board, dual ports on bracket)
- 5Gbps bus capable of high-speed/ full-speed/low-speed data ranges
- 2x USB 3.0 ports on bracket dedicated to keyboard & mouse (on bracket)
- 1x 10 pin box header for external PS/2 keyboard/mouse
- On board programmable 8-bit Digital I/Os

DISPLAY

- Graphic Controller
- Display Interface

- Intel® Xeon® and Core™ i3 processors integrated graphics engine
- Provides improved 3D multimedia capabilities including Microsoft DirectX 12, OCL 2.x and OpenGL 4.3/4.4
- Support independent triple display
- CRT on bracket: Resolution up to 1920x1200 @ 60Hz
- DVI-D on bracket: up to 1920x1200 @ 60Hz (CRT + DVI-D on bracket by DVI-I port)
- HDMI: up to 4096x2160 @ 24Hz

Mechanical & Environment

- Dimension
- Power Supply
- Environment
- MTBF

- 338.5mm(L) x 126.39mm(W), 13.33”(L) x 4.98”(W)
- PCB: 8 layers
- Typical: +12V, +5V
- Support ATX mode
- Operatin Temperature:0~60°C
- Storage Temperature:-20~80°C
- Relative Humidity:5~90%,non-condensing
- Over 100,000 hours at 40°C