ROBO-8111VG2AR
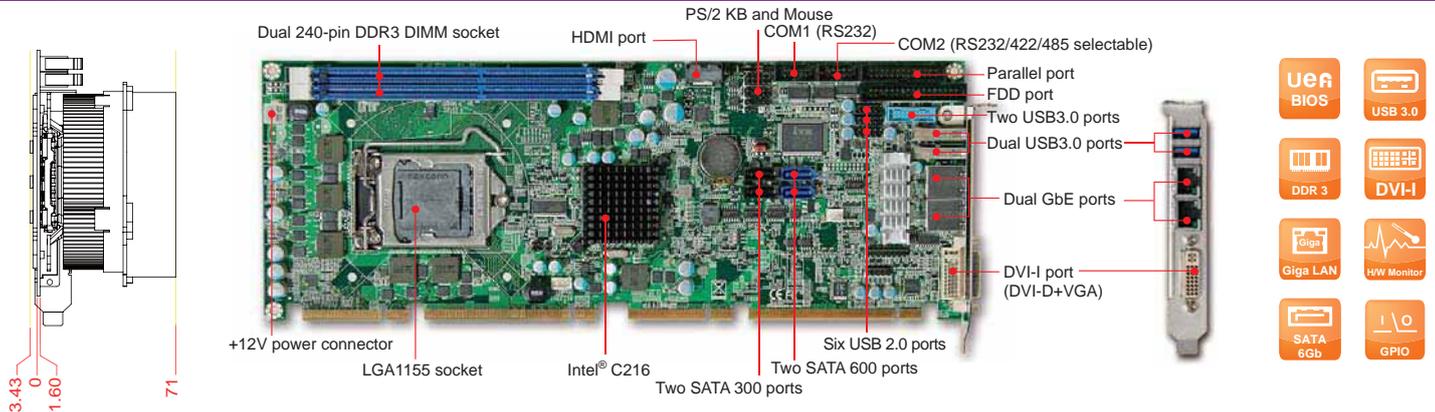
Intel® Xeon and Core i3 processor based on PICMG 1.3 SHB with DDR3 SDRAM, VGA, Dual Gigabit Ethernet, Audio and USB3.0

- Dual 240-pin DDR3 DIMM socket
- PS/2 KB and Mouse
- HDMI port
- COM1 (RS232)
- COM2 (RS232/422/485 selectable)
- Parallel port
- FDD port
- Two USB3.0 ports
- Dual USB3.0 ports
- Dual GbE ports
- DVI-I port (DVI-D+VGA)
- +12V power connector
- LGA1155 socket
- Intel® C216
- Two SATA 300 ports
- Two SATA 600 ports
- Six USB 2.0 ports

UEFI BIOS | USB 3.0 | DDR 3 | DVI-I | Giga LAN | H/W Monitor | SATA 6Gb | GPIO

ROBO-8111VG2AR is based on Intel® C216 chipset and workstation processor sku. Build with flexible PCI express expansion, it's suitable for Medical, factory automation, and digital signage applications.

FEATURES

- Support Intel ®Xeon E3-1200v2 series/Core i3 processors in LGA 1155 package
- Delivers up to 16GB maximum DDR3 1333/1600 ECC SDRAM on two DIMM sockets
- Support multiple display by DVI-I (DVI-D + VGA) and HDMI
- Support iAMT 8.0 on Intel Xeon E3-1200v2 series processors
- High speed dual Gigabit Ethernet based on PCI Express x1, high bandwidth I/O interface
- Rich I/O connections such as FDD, two Gigabit Ethernet, serial ports, parallel port, USB 2.0/3.0
- On-board two SATA 300 and two SATA 600 ports support RAID 0,1,5,10

ORDERING GUIDE

AB1-2329	**ROBO-8111VG2AR** PICMG 1.3(PCI-E+PCI).LGA1155. Xeon /i3 processors.SHB.w/VGA/Dual GbE/Audio

PACKING LIST

Standard	B6901990 SATA II cable
	B6902930 SATA III cable (Black)
	B690021S cable kit for FDD+PRN with bracket
	B6900270 dual head COM port cable with bracket
	B6902890 DVI-D + VGA cable with bracket
	B8981980 PICMG SBC Handling and Installation Notice
	B3751500 Installation CD
Optional	B6902980 PS/2 Keyboard / Mouse Cable with bracket
	B6902230 USB port cable with bracket
	AB9-2066 PA-M1AU Multiple Media kit

GENERAL

Processor	- Intel® Xeon E3-1200v2 series and Core i3 processor in LGA-1155 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)
Chipset	Intel® C216 PCH
BIOS	Phoenix UEFI BIOS
Memory	- Support up to 16GB DDR3 1333/1600 SDRAM on two 240-pin ECC DIMM sockets - Support ECC
Storage Devices	- Support 2x SATA 600 drives and 4x SATA 300 drives (Dual SATA 300 ports via Backplane) - RAID 0,1,5,10 - 1x FDD channel
Watchdog Timer	Programmable via S/W from 0.5 sec. to 254.5 sec.
Hardware Monitoring	System monitor (Voltage, Fan speed and Temperature)
Expansion Interface	- 1x PCI Express x16 - 2x PCI Express x8 - 1x PCI Express x8 + 2x PCI Express x4 - 4x PCI devices at 32 bit 33 MHz

I/O INTERFACE

Super I/O	ITE IT8728F
Audio	- Intel® BD82C216 PCH built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC886-GR HDA codec, 7.1 channels
Ethernet	- Intel® 82579LM + 82574L 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
Serial Port	- 1x RS232 - 1x Selectable RS232/422/485
USB	- 10x USB 2.0 ports(Four ports through backplane) - 480 Mb/s bus comprehends the high-speed / full-speed / low-speed data ranges - 4x USB 3.0 ports on board(Two ports on board, two ports on bracket) - 5Gbps bus comprehends the high-speed / full-speed / low-speed data ranges
Keyboard & Mouse	2x USB 3.0 ports on bracket dedicated to keyboard & mouse
GPIO	On board programmable 8-bit Digital I/Os
Others	1x parallel port

DISPLAY

Graphic Controller	- Intel® Xeon and Core i3 processors integrated graphic engine - Provided improved 3D multimedia capabilities including Microsoft DirectX 11, Shader Model 4.0, MPEG-2 and OpenGL 3.1
Display Interface	- CRT on bracket: Resolution up to 2048x1536 @ 75Hz - DVI-D: up to 1920x1200 @ 60Hz - HDMI: up to 1920x1200 @ 60Hz (CRT + DVI-D on bracket by DVI-I port)

Mechanical & Environment

Dimension	- 338.5mm(L) x 126.39mm(W), 13.33"(L) x 4.98"(W) - PCB: 8 layers
Power Supply	- Typical: +12V@4.85A;+5V@3.4A - Support ATX mode
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 100,000 hours at 40°C