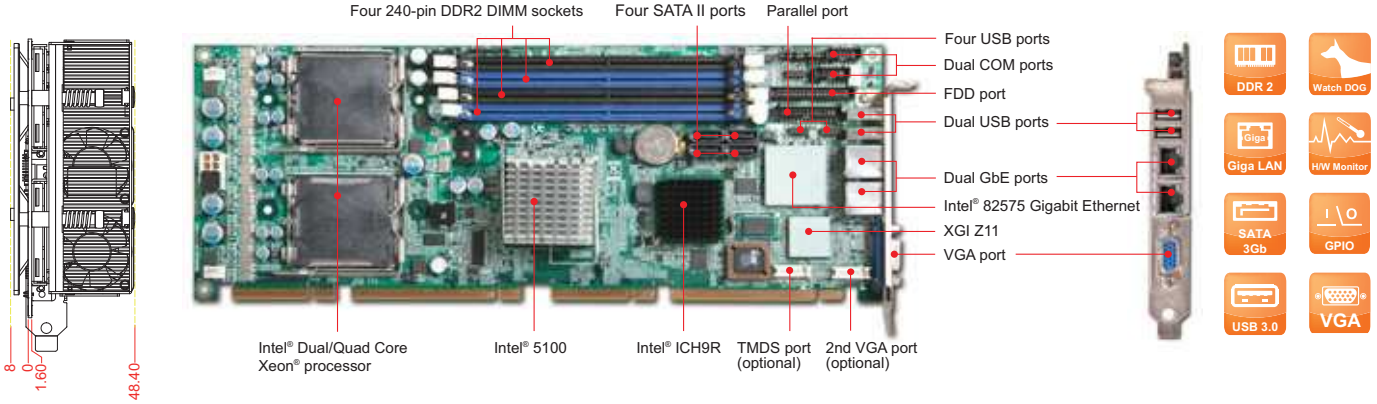




# ROBO-8921VG2R

Dual/Quad Core™ Xeon® processor based on PICMG 1.3 SHB with DDR2 ECC SDRAM, VGA & Dual Gigabit Ethernet



ROBO-8921VG2R has adopted the 5100 chipset and dual Xeon® processors. By high computing power and a flexible PCI express expansion support, it's suitable for military, industrial automation, and digital signage applications.

## FEATURES

- ROBO-8921 offers flexible 1333/1066 MHz selection of Intel® Dual/Quad Core™ Xeon® processors with LGA771 package
- Flexible design of dual PCI Express x8 could be aggregated as one PCI Express x16 for Graphic card
- Rich & powerful I/O expansion covers dual PCI Express x8, one PCI Express x4 and four PCI devices
- Up to 32GB, ECC registered memory ensure the computer's reliability and benefited the data swapping process
- Relative high performance graphic engine, XGI Z11 provides solid 2D for the server grade market
- Dual PCI Express x4 based Gigabit Ethernet support IPv4, IPv6 offloading, VLAN, Wake-On-LAN functions

## ORDERING GUIDE

<b>AB1-3147</b>	<b>ROBO-8921VG2R</b> PICMG 1.3(PCI-E+PCI), Socket 771, Xeon LV, SHB, w/VGA/Dual GB LAN
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## PACKING LIST

<b>Standard</b>	B6900960 cable kit for 1 serial + 1 parallel port w/ bracket B6900074 FDD cable B6901990 SATAII cable B8301761 2 in 1 CPU cooler B8981980 PICMG SBC Handling and Installation Notice B3751110 Installation CD
<b>Optional</b>	B6901620 keyboard and mouse cable with bracket B6901610 one DVI +one VGA cable with bracket B6901970 two USB port cable with bracket B6902000 two serial port cable with bracket

## GENERAL

<b>Processor</b>	- Intel® Dual/Quad Core™ Xeon® 5000 series processor up to 3 GHz (35~80W) with 4MB~12MB L2 Cache (depends on CPU sku) in LGA771 package - FSB: 1333/1066MHz - DMI x4 Link: 2.5 GT/s - Supports Intel® Hyper-Threading, Virtualization, and SpeedStep Technology
<b>Chipset</b>	- Intel® 5100 (27.5W) - ICH9R (4.2W) - Supports Intel® Virtualization Technology
<b>BIOS</b>	AMI Core 8 BIOS
<b>Memory</b>	Supports up to 32GB DDR2 533/667 SDRAM on four 240-pin DIMM sockets, supports ECC, registered
<b>Storage Devices</b>	- 6x SATA II drivers (Dual SATA ports via Backplane) - RAID 0, 1, 5, 10 - 1x FDD channel on board box header
<b>Watchdog Timer</b>	Programmable via S/W from 0.5 sec. to 254.5 sec.
<b>Hardware Monitoring</b>	System monitor (Voltage, Fan speed and Temperature)
<b>Expansion Interface</b>	- 1x PCI Express x16 Gen 1 up to 2.5 GT/s - 1x PCI Express x8 Gen 1 up to 2.5 GT/s - 3x PCI Express x4 Gen 1 up to 2.5 GT/s - 4x PCI devices at 32-bit 33 MHz

## I/O INTERFACE

<b>Super I/O</b>	Winbond W83627DHG
<b>Audio</b>	N/A
<b>Ethernet</b>	- Intel® JL82575EB dual port gigabit ethernet controller - Dual 10BASE-T/100BASE-TX/1000BASE-T Ethernet - PCI Express x4 interface based on Gigabit Ethernet - Dual RJ-45 connector with two LED indicators on bracket
<b>Serial Port</b>	- 1x RS232 on board box header - 1x Selectable RS232/422/485 on board box header
<b>USB</b>	- 10x USB 2.0 ports (Four ports through backplane) - 480 Mb/s bus comprehends the high-speed/full-speed/low-speed data ranges
<b>Keyboard &amp; Mouse</b>	2x USB 2.0 ports on bracket dedicated to keyboard & mouse
<b>GPIO</b>	On board programmable 8-bit Digital I/Os
<b>Others</b>	1x parallel port on board box header

## DISPLAY

<b>Graphic Controller</b>	XGI Z11
<b>Display Interface</b>	- VGA on bracket: Resolution up to 1600x1200 @16M colours 70Hz - Optional second VGA or DVI-D display interface

## Mechanical & Environment

<b>Dimension</b>	- 338.5(L) x 126.39(W)mm; 13.33"(L) x 4.98"(W) - PCB: 12 layers
<b>Power Supply</b>	- Typical: +12V@3.74A; +5V@7.01A - Supports ATX mode
<b>Environment</b>	- Operation Temperature: 0~60 °C (For 80W CPU limitation) - Storage Temperature: -20~80 °C - Relative Humidity: 5~90%, non-condensing
<b>MTBF</b>	Over 100,000 hours at 40°C

