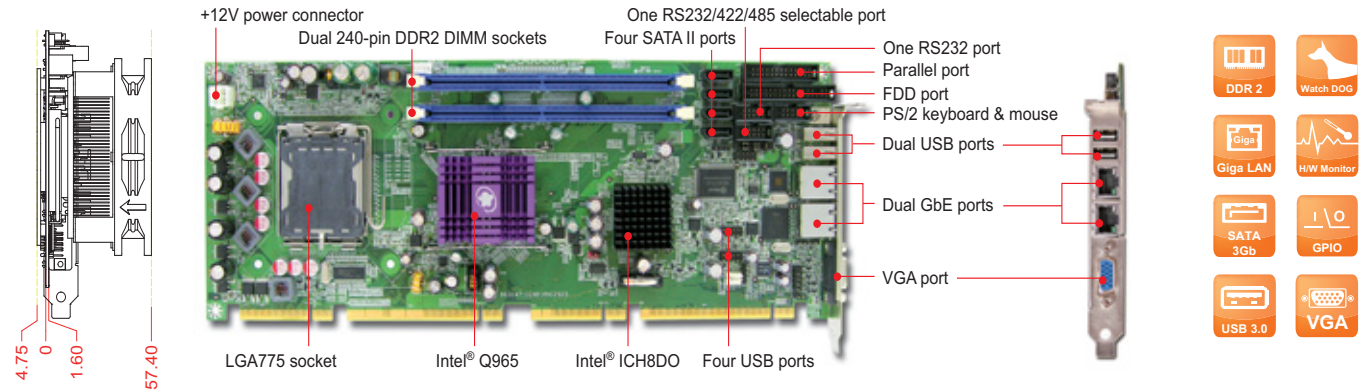


# ROBO-8912VG2AR

Intel® Core™ 2 Duo processor based on PICMG 1.3 SHB with DDR2 SDRAM, VGA, Dual Gigabit Ethernet, Audio and USB



ROBO-8912VG2AR is based on the Intel® Q965, ICH8DO chipset. It supports DDR2 memory, and two Gigabit Ethernet. With PCI-Express, Image Processing, Industrial Automation, and Digital Signage applications are able to run at faster rates.

## FEATURES

- Supports 45nm Intel® Core™ 2 Duo processor that generates a maximum 65W TDP. Lower TDP than socket 775 Pentium® 4 processor makes the vertical mount slot board more reliable
- More features, such as EM64T, EIST, XD & VT, can be easily applied to system by changing processors
- Integrated Intel® GMA 3000 graphics engine built with high grade display capability
- Flexible design of four external PCI Express x1 can aggregate as one PCI Express x4 for storage device through backplane

## ORDERING GUIDE

<b>AB1-3042</b>	<b>ROBO-8912VG2AR</b> PICMG 1.3(PCI-E+PCI).Socket T.P4. SBC.w/VGA/Dual GbE/Audio
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## PACKING LIST

Standard	Optional
B6903240 Dual head COM port cable with bracket	B6901442 PS/2 Keyboard/Mouse Cable with bracket
B6900643 PRN cable	AB9-2066 PA-M1AU Multiple Media kit
B6901990 SATA II cable	B6902230 USB port cable with bracket
B6900600 FDD cable	B6901870 PS/2 Keyboard/Mouse Cable and one USB with bracket
B8981980 PICMG SBC Handling and Installation Notice	
B3751110 Installation CD	

## GENERAL

<b>Processor</b>	- Intel® Core™ 2 Duo/Pentium D/Pentium 4/Celeron® Processor up to 2.93G (35W~95W) with 512K~2MB L2 Cache in LGA775 package - FSB: 1066/800/533MHz - DMI x4 Link: 2.5 GT/s - Supports Intel® Virtualization Technology (VT-x)
<b>Chipset</b>	- Intel® Q965 Graphics and Memory Controller Hub (28W) - ICH8DO (3.3W)
<b>BIOS</b>	AMI Core 8 BIOS
<b>Memory</b>	Supports up to 4GB DDR2 800/667/533 SDRAM on dual 240-pin DIMM sockets
<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 - 4x PCI Express x1 Gen 1 up to 2.5 GT/s - 4x PCI devices at 32-bit 33MHz

## I/O INTERFACE

<b>Super I/O</b>	Winbond W83627EHG-AC
<b>Audio</b>	- Intel® 82Q965 built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC262-VC2 LQFP48 codec, 2.1 channels
<b>Ethernet</b>	- Intel® 82566DM+82573L gigabit ethernet controller - 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>	- GMCH integrated Intel Graphic Media Accelerator (GMA) 3000 - Provides improved 3D multimedia capabilities including Microsoft DirectX 9, Shader Model 3.0, OpenGL 1.5, Advanced De-interlacing, MPEG-2 hardware acceleration - Intel Dynamic Video Memory Technology (DVMT) 4.0 shares system memory up to 256MB
<b>Display Interface</b>	VGA on bracket: Resolution up to 2048x1536 @75Hz

## Mechanical & Environment

<b>Dimension</b>	- 338.5(L) x 126.39(W)mm; 13.33"(L) x 4.98"(W) - PCB: 6 layers
<b>Power Supply</b>	- Typical: +12V@6.3A; +5V@4.5A - Supports ATX mode
<b>Environment</b>	- Operation Temperature: 0~60 °C - Storage Temperature: -20~80 °C - Relative Humidity: 5~90%, non-condensing
<b>MTBF</b>	Over 90,000 hours at 40 °C

