ROBO-8914VG2AR
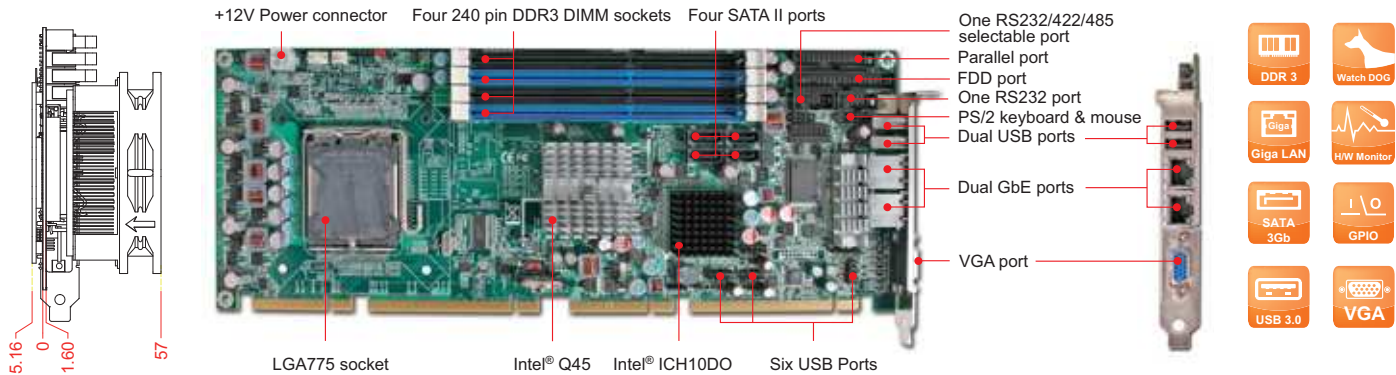
Intel® Core™ 2 Quad processor based on PICMG 1.3 SHB with DDR3 SDRAM, VGA, Dual Gigabit Ethernet, Audio and USB

+12V Power connector | Four 240 pin DDR3 DIMM sockets | Four SATA II ports

One RS232/422/485 selectable port
Parallel port
FDD port
One RS232 port
PS/2 keyboard & mouse
Dual USB ports

Dual GbE ports

VGA port

LGA775 socket | Intel® Q45 | Intel® ICH10DO | Six USB Ports

DDR 3 | Watch DOG
Giga LAN | H/W Monitor
SATA 3Gb | GPIO
USB 3.0 | VGA

ROBO-8914VG2AR is based on Intel® 82Q45 GMCH and ICH10DO. It supports four DDR3 memory for higher capacity. By supporting PCI-Express x16, it's applied more faster rate to Image Processing and Industrial Automation.

FEATURES

- Supports Intel® Core™ 2 Duo and Core™ 2 Quad processors and offers flexible 1333/1066/ 800 MHz FSB selection

- Delivers up to 8GB maximum DDR3 1066/800 on four long DIMM sockets

- Supports Intel® Q45 integrated GMA 4500 graphic engine delivers optimized 3D graphics performance

- Supports iAMT 5.0 and iTPM function

- 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

- Four on-board SATA ports support RAID 0,1,5,10

ORDERING GUIDE

AB1-3826	**ROBO-8914VG2AR** PICMG 1.3(PCI-E+PCI).LGA775.Core 2 Quad.SHB.w/VGA/Dual GbE/Audio

PACKING LIST

Standard	B690021S cable kit for FDD+PRN with bracket
	B6903240 Dual head COM port cable with bracket
	B6901990 SATA II cable
	B8981980 PICMG SBC Handling and Installation Notice
	B3751250 Installation CD
Optional	B6902230 USB port cable with bracket
	B6901442 PS/2 Keyboard/Mouse Cable with bracket
	AB9-2066 PA-M1AU Multiple Media kit

GENERAL

Processor	- Intel® Core™ 2 Quad/Core™ 2 Duo/Celeron® Processor up to 3G (65W~95W) with 512K~6MB L2 Cache in LGA775 package - FSB: 1333/1066/800MHz - DMI x4 Link: 2.5 GT/s - Supports Intel® Virtualization Technology (VT-x)
Chipset	- Intel® 82Q45 Graphics and Memory Controller Hub (23.4W) - ICH10DO (5W) - Supports Intel® Virtualization Technology for Directed I/O (VT-d)
BIOS	AMI Core 8 BIOS
Memory	Supports up to 8GB DDR3 1066/800 SDRAM on four 240-pin DIMM sockets
Storage Devices	- 6x SATA II drivers (Dual SATA ports via Backplane) - RAID 0,1,5,10 - 1x FDD channel on board box header
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 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 33 MHz

I/O INTERFACE

Super I/O	Winbond W83627THG (R0 version)/W83627DHG-PT (R2 version)
Audio	- Intel® 82Q45 built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC662-GR HDA codec, 5.1 channels
Ethernet	- Intel® 82567LM+82574L gigabit ethernet controller - Dual RJ-45 connector with two LED indicators on bracket
Serial Port	- 1x RS232 on board box header - 1x Selectable RS232/422/485 on board box header
USB	- 12x USB 2.0 ports (Four ports through backplane) - 480 Mb/s bus comprehends the high-speed/full-speed/low-speed data ranges
Keyboard & Mouse	2x USB 2.0 ports on bracket dedicated to keyboard & mouse
GPIO	On board programmable 8-bit Digital I/Os
Others	1x parallel port on board box header

DISPLAY

Graphic Controller	- GMCH integrated Intel Graphic Media Accelerator (GMA) 4500 - Provided improved 3D multimedia capabilities including Microsoft DirectX 10, Shader Model 4.0, MPEG-2 and OpenGL 2.1 - Intel Dynamic Video Memory Technology (DVMT) 5.0 shares system memory up to 1GB
Display Interface	VGA on bracket: Resolution up to 2048x1536 @75Hz

Mechanical & Environment

Dimension	- 338.5(L) x 126.39(W)mm; 13.33"(L) x 4.98"(W) - PCB: 8 layers
Power Supply	- Typical: +12V@3.86A; +5V@6.44A - Supports ATX mode
Environment	- Operation Temperature: 0~55 °C - Storage Temperature: -20~80 °C - Relative Humidity: 5~90%, non-condensing
MTBF	Over 120,000 hours at 40°C