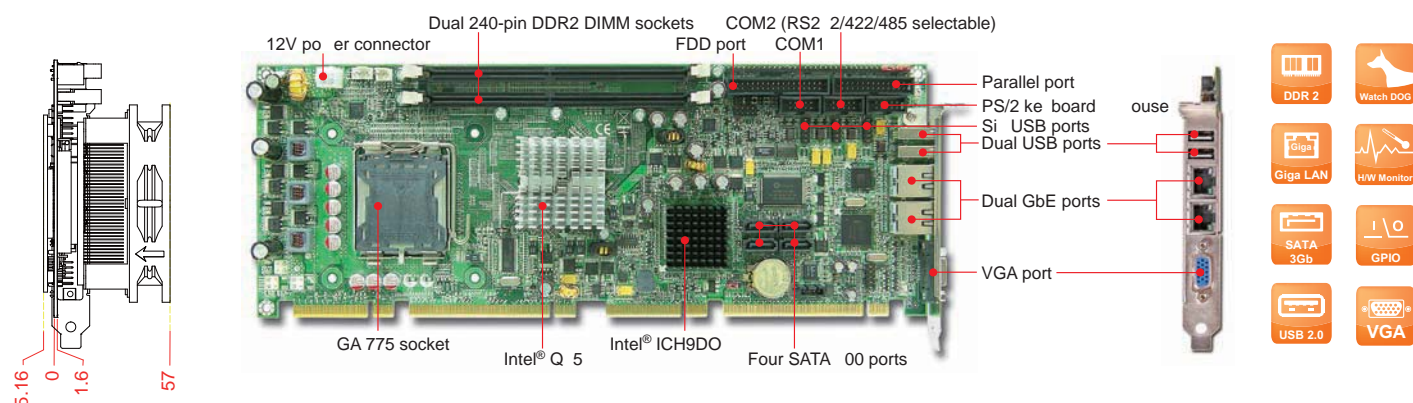


ROBO-8913VG2AR

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



ROBO-8913VG2AR is built with Intel® Q35, ICH9DO chipset up to core 2 Quad processors. It supports DDR2 memory, and two Intel® gigabit ethernet. It's an ideal solution for image processing and industrial automation applications.

FEATURES

- Support Intel® Core™ 2 Quad processor up to FSB 1333MHz
- Low profile processor improves stability and reliability of whole system
- Support eSATA that can communicate with multiple drives via port multiplier
- Lockable cable-latched notches of SATA connector secure connection in vibration condition
- Embedded Intel® Active Management Technology (AMT) remotely discovers, heals and protects networked computing assets using third-party management and security applications
- System noise and heat are reduced through more intelligent fan speed control algorithms by integrated Intel® Quiet System Technology
- Flexible design of four external PCI Express x1 could aggregate as one PCI Express x4 for storage device through backplane

ORDERING GUIDE

AB1-3072	ROBO-8913VG2AR PICMG 1.3(PCI-E+PCI).Socket T.Core 2 Duo. SBC.w/VGA/Dual GbE/Audio
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PACKING LIST

Standard	B690021S cable kit for FDD+PRN with bracket
	B6900270 dual head COM port cable with bracket
	B6901990 SATA II cable
	B8981980 PICMG SBC Handling and Installation Notice
	B3751110 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™ 2Quad/Core™ 2 Duo/ Celeron® Processor up to 3G (35W~95W) with 512K~6MB L2 Cache in LGA-775 package - FSB: 1333/1066/800MHz - DMI x4 Link: 2.5GT/s - Support Intel® Virtualization Technology (VT-x)
Chipset	- Intel® 82Q35 Graphics and Memory Controller Hub (22W) - ICH9DO (3.5W) - Support Intel® Virtualization Technology for Directed I/O (VT-d)
BIOS	AMI Core 8 BIOS
Memory	Support up to 4GB DDR2 800/667 SDRAM on dual 240-pin DIMM sockets
Storage Devices	- 6x SATA 300 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 Gen1 up to 2.5 GT/s - 4x PCI Express x1 Gen1 up to 2.5 GT/s - 4x PCI devices at 32 bit 33 Mhz

I/O INTERFACE

Super I/O	Winbond W83627HG-AW
Audio	- Intel® 82Q35 built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC262-VC2 LQFP48 codec, 2.1 channels
Ethernet	- Intel® 82566DM + 82573L 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, IrDA 1.0

DISPLAY

Graphic Controller	- GMCH integrated Intel Graphic Media Accelerator (GMA) 3100 - Provided improved 3D multimedia capabilities including Microsoft DirectX 9, Shader Model 2.0, MPEG-2 hardware acceleration - Intel Dynamic Video Memory Technology (DVMT) 4.0 shares system memory up to 256MB
Display Interface	VGA on bracket: Resolution up to 2048x1536 @ 75Hz

Mechanical & Environment

Dimension	- 338.5mm(L) x 126.39mm(W) / 13.33"(L) x 4.98"(W) - PCB: 8 layers
Power Supply	- Typical: +12V@2.7A; +5V@6.7A - Support ATX mode
Environment	- Operation Temperature: 0~60 °C - Storage Temperature: -20~80 °C - Relative Humidity: 5~90%, non-condensing
MTBF	Over 110,000 hours at 40°C

