ROBO-8913VG2AR
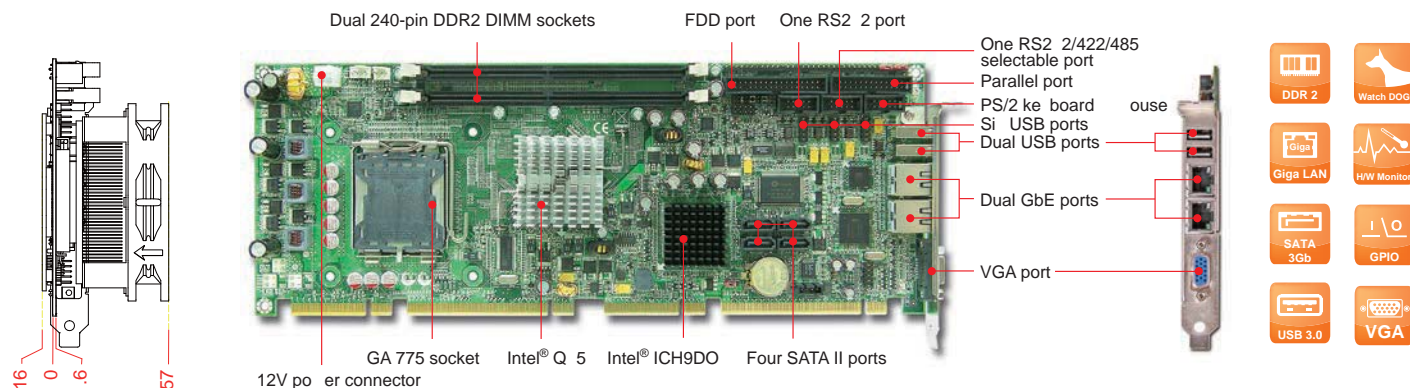
Intel® Core™ 2 Quad processor based on PICMG 1.3 SHB with DDR2 SDRAM, VGA, Dual Gigabit Ethernet, Audio and USB

Dual 240-pin DDR2 DIMM sockets · FDD port · One RS2 2 port

One RS2 2/422/485 selectable port
Parallel port
PS/2 ke board ouse
Si USB ports
Dual USB ports

Dual GbE ports

VGA port

GA 775 socket · Intel® Q 5 · Intel® ICH9DO · Four SATA II ports

12V po er connector

DDR 2 · Watch DOG · Giga LAN · H/W Monitor · SATA 3Gb · GPIO · USB 3.0 · VGA

ROBO-8913VG2AR is built with the 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

- Supports Intel® Core™ 2 Quad processor up to FSB 1333MHz

- Low profile processor improves stability and reliability of whole system

- Supports 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 (iAMT) remotely locates, repairs 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

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™ 2 Quad/Core™ 2 Duo/Celeron® Processor up to 3G (35W~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® 82Q35 Graphics and Memory Controller Hub (22W) - ICH9DO (3.5W) - Supports Intel® Virtualization Technology for Directed I/O (VT-d)
BIOS	AMI Core 8 BIOS
Memory	Supports up to 4GB DDR2 800/667 SDRAM on dual 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 33MHz

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 - Provides 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	- 338.5(L) x 126.39(W)mm; 13.33"(L) x 4.98"(W) - PCB: 8 layers
Power Supply	- Typical: +12V@2.7A; +5V@6.7A - Supports 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