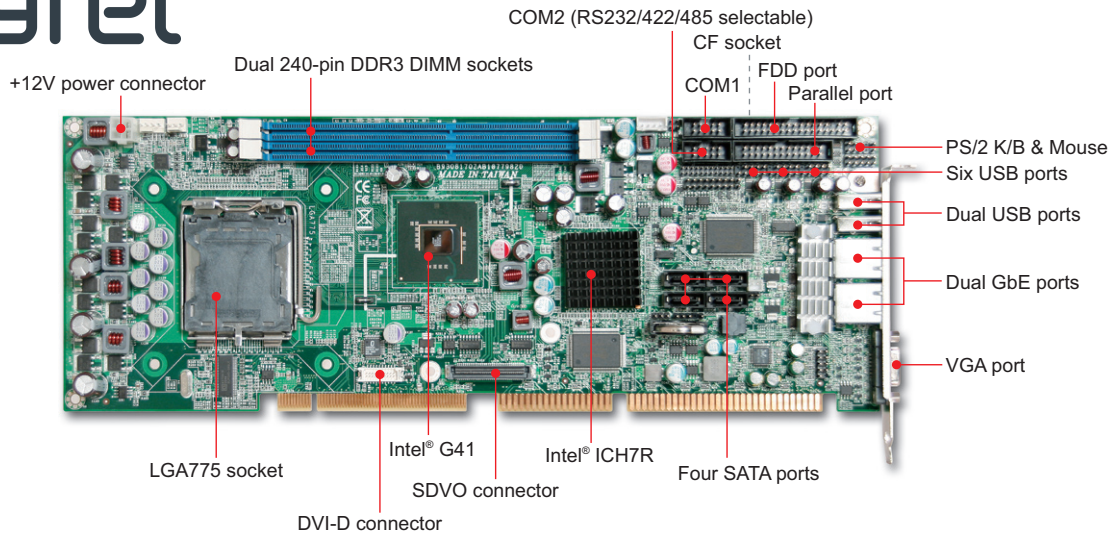# ROBO-8779VG2AR

Intel® Core™ 2 Quad processor based PICMG 1.0 SBC with DDR3 SDRAM, VGA, DVI, Dual Gigabit Ethernet, Audio and USB

styrel

- +12V power connector
- Dual 240-pin DDR3 DIMM sockets
- COM2 (RS232/422/485 selectable)
- CF socket
- COM1
- FDD port
- Parallel port
- PS/2 K/B & Mouse
- Six USB ports
- Dual USB ports
- Dual GbE ports
- VGA port
- LGA775 socket
- DVI-D connector
- SDVO connector
- Intel® G41
- Intel® ICH7R
- Four SATA ports

FEATURES

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

- Delivers up to 4GB maximum DDR3 1066/800 on two long DIMM sockets

- Support Intel® G41 integrated GMA X4500 graphic engine delivers optimized 3D graphics performance

- Support dual display VGA and DVI-D interface, and SDVO connector for other types display by project

- High speed dual Gigabit Ethernet based on PCI Express x1, high bandwidth I/O interface

- Support one CF socket up to UDMA5 mode

- Rich I/O connections such as FDD, two Gigabit Ethernet, serial ports, parallel port, USB 2.0, and SATA ports

ORDERING GUIDE

Standard	**ROBO-8779VG2AR** Intel® Core™ 2 Quad processor based PICMG 1.0 SBC with DDR3 SDRAM, VGA, DVI, Dual Gigabit Ethernet, Audio and USB
Optional	**PA-M1AU** Multimedia kit with audio and USB ports **PS/2 Keyboard/Mouse Cable with Bracket** PS/2 keyboard/mouse connectors on bracket **USB Cable with bracket** Two USB ports with bracket **PA-G1D** DVI output card via board to board SDVO connector **Low Profile LGA775 Cooler** High efficiency slim cooler increases reliability of system

GENERAL

Processor	CPU & Package: Intel® Core™ 2 Quad, Core™ 2 Duo, Celeron® processor in LGA-775 package FSB: 1333/1066/800MHz
Chipset/Core Logic	Intel® G41 and ICH7R
System Memory	Up to 4GB DDR3 1066/800 SDRAM on two 240-pin DIMM socket
BIOS	AMI BIOS
Storage Devices	EIDA: N/A SATA: Support four SATA 300 drives (RAID 0, 1, 5, 10)
Solid State Disk	One Type II CF socket (up to UDMA5 mode)
Watchdog Timer	Programmable via software from 0.5 sec. to 254.5 sec.
Expansion Interface	N/A
Hardware Monitoring	System monitor (fan, temperature, voltage)
Power Requirement	N/A
Dimension	Dimension : 338.5(L) x 122(W) mm; 13.33"(L) x 4.8" (W) PCB: 8-layer
Environment	Operating Temperature: 0 to 55°C Storage Temperature: -20 to 80°C Relative Humidity: 5% to 90%, non-condensing
MTBF	N/A

I/O

MIO	Two serial (RS232 x1, selectable RS232/422/485 x1), one parallel and one FDD channel
IrDA	N/A
Ethernet	- Dual 10 BASE-T/100 BASE-TX/1000 BASE-T Ethernet - PCI Express x1 interface based Gigabit Ethernet - Dual RJ-45 connectors with two LED indicators
Audio	HDA interface, 2-channel Audio (Realtek ALC 662)
USB	Eight USB 2.0 ports (Dual ports on bracket)
Keyboard & Mouse	Two USB 2.0 ports on bracket dedicated to keyboard & mouse

DISPLAY

Graphic Controller	- GMCH integrated Intel® Graphics Media Accelerator (GMA) x4500 - Provided improved 3D multimedia capabilities including Microsoft DirectX 10, Shader Model 4.0 and OpenGL 2.0
Graphic Memory	Intel® Dynamic Video Memory Technology (DVMT) 4.0 shares system memory up to 256MB
Display Interface	Analog CRT: up to 2048 x 1536 DVI-D: up to 2048 x 1536