ROBO-8719VG2AR
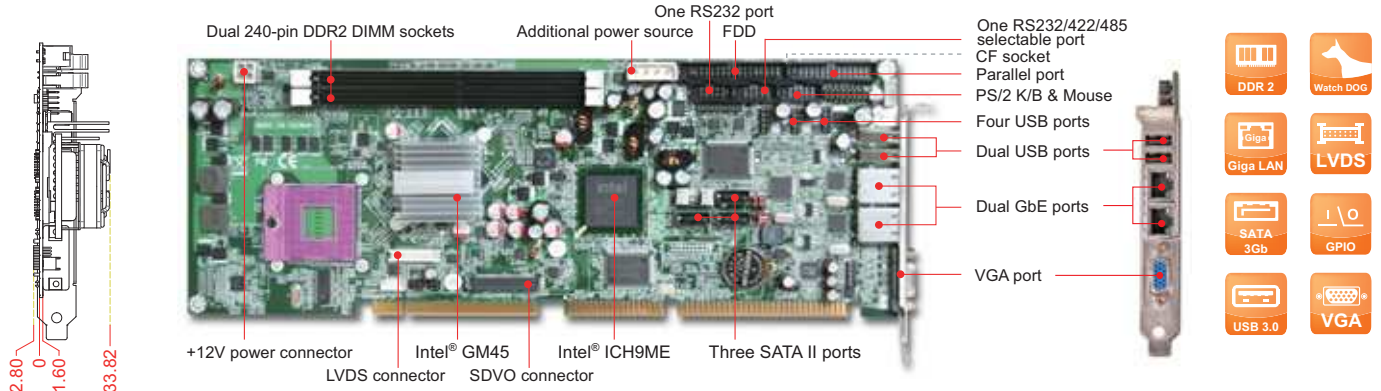
Intel® latest 45nm Core™ 2 Duo or Celeron® M processor based on PICMG SBC with DDR2 SDRAM, VGA, Dual Gigabit Ethernet and Audio

Dual 240-pin DDR2 DIMM sockets
Additional power source
One RS232 port
FDD
One RS232/422/485 selectable port
CF socket
Parallel port
PS/2 K/B & Mouse
Four USB ports
Dual USB ports
Dual GbE ports
VGA port

+12V power connector
LVDS connector
Intel® GM45
SDVO connector
Intel® ICH9ME
Three SATA II ports

DDR 2
Watch DOG
Giga LAN
LVDS
SATA 3Gb
GPIO
USB 3.0
VGA

2.80   0   1.60   33.82

ROBO-8719VG2AR is based on GM45 and ICH9ME chipset, supporting mobile processors up to Core™ 2 Quad sku. It's the ideal solution for Medical, Industrial Automation and Kiosk applications.

FEATURES

■ ROBO-8719VG2AR offers flexible FSB up to 1066MHz selection of Intel® 45nm Mobile Core™ 2 Quad, Core™ 2 Duo or Celeron® M processor that features high computing power with low heat

■ Integrated 5th generation graphic engine Mobile Intel® GMA 4500MHD built with max. graphics core speeds up to 533MHz to improve graphics and 3D rendering performance

■ Supports two on-board display output options, including VGA and 24-bit LVDS for flexible display choice. An optional DVI-D output card supports via board to board SDVO connector by project

■ Supports integrated Intel® Trusted Platform Module (iTPM) for more secure platforms

ORDERING GUIDE

AB1-3252	ROBO-8719VG2AR PICMG 1.0(PCI+ISA).Socket mPGA479M. SBC.w/VGA/Dual GbE/Audio

PACKING LIST

Standard	B6900600 FDD Cable
	B6900064 PRN cable
	B6901990 SATA II cable
	B690027S serial port cable
	B690003S Cable Assy 4F-4F
	B3751110 Installation CD
	B9970542 CPU cooler (up to 35W)
Optional	B6902230 USB port cable with bracket
	B6902300 Audio cable with line in/out/Mic in
	AB9-2066 PA-M1AU Multiple Media kit
	AB9-3076 PA-G1D SDVO to DVI-D Output Accessory Board
	B6901442 PS2 Keyboard and Mouse cable with bracket

GENERAL

Processor	- Intel® Mobile Core™ 2 Quad/Core™ 2 Duo/Celeron® M Processor up to 2.53G (35W) with 1MB~6MB L2 Cache in mFCPGA package - FSB: 1066/800/667MHz - DMI x4 Link: 2.5 GT/s - Supports Intel® Virtualization Technology (VT-x)
Chipset	- Intel® 82GM45 Graphics and Memory Controller Hub (12W) - ICH9ME (3.3W)
BIOS	Award BIOS
Memory	Support up to 4GB DDR2 800/667 SDRAM on dual 240-pin DIMM sockets
Storage Devices	- 3x SATA II drivers (RAID 0,1) - 1x Type II CompactFlash socket supports Ultra DMA133/100/66/33 MB/s - 1x FDD channel
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	- 4x PCI devices at 32-bit 33MHz

I/O INTERFACE

Super I/O	Winbond W83627DHG
Audio	- Intel® 82GM45 built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC262-VC2 LQFP48 codec, 2 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	- 6x USB 2.0 ports - 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) 4500MHD - Provided improved 3D multimedia capabilities including Microsoft DirectX 10, OpenGL 2.0, MPEG-2 hardware acceleration - Intel Dynamic Video Memory Technology (DVMT) 5.0 shares system memory up to 256MB
Display Interface	- VGA on bracket: Resolution up to 2048x1536 - LVDS: Dual channel 24-bit LVDS - SDVO: Optional DVI-D output card via SDVO (Two display streams supported in above combination)

Mechanical & Environment

Dimension	- 338.5(L) x 122(W)mm; 13.33"(L) x 4.8"(W) - PCB: 8 layers
Power Supply	- Typical: +12V@2A; +5V@5.4A - Supports ATX mode
Environment	- Operation Temperature: 0~60 °C - Storage Temperature: -20~80 °C - Relative Humidity: 5~90%, non-condensing
MTBF	Over 111,000 hours at 40°C