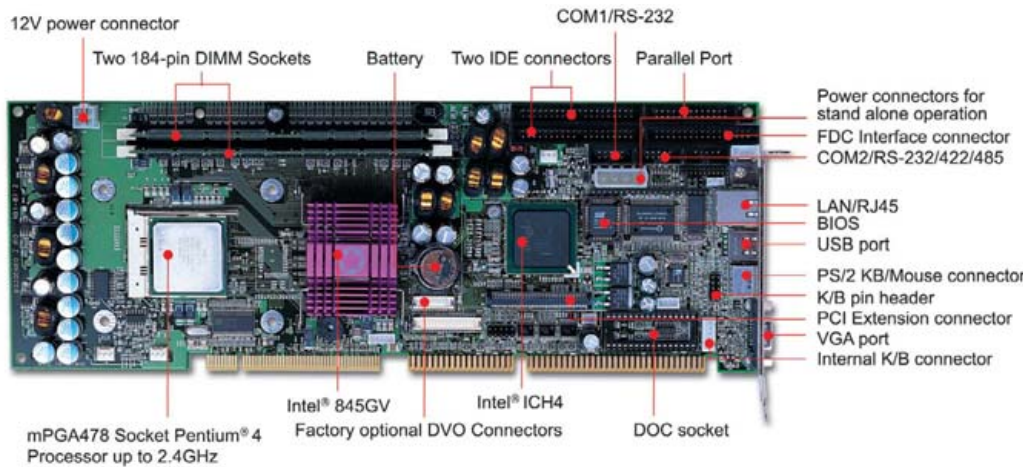


# ROBO-8712VLA

Intel® Pentium® 4 or Celeron® processor based PICMG SBC with DDR SDRAM, AGP VGA, Fast Ethernet, Audio and USB 2.0



## FEATURE

- High quality and reliable design for wider range Intel® Pentium® 4/Celeron® processor support mission critical operation
- Intel 845GV chipset with high performance integrated graphics, backed up by Intel EID's long product life support
- Best cost/performance solution, targeting at most of the industrial applications
- Only the most popular functions integrated on board to keep the best layout trace placement for stability
- Rich expansion capability through proprietary PCI and DVO expansion connectors (optional)
- Standard features for embedded system deployment like H/W monitoring, WDT, SSD and Wake-On-LAN
- Additional external power connector for stand alone operation for rugged embedded system integration

## Ordering Information

<b>Standard</b>	<b>ROBO-8712VGA</b> Socket 478 Pentium® 4 or Celeron® processor based PICMG SBC with DDR SDRAM, AGP VGA, Fast Ethernet, Audio and USB 2.0
<b>Optional</b>	<p><b>ROBO-U160H</b> Single Gigabit Ethernet port extension module with Portwell OmniPCI™ connection interface</p> <p><b>ROBO-N201G</b> Single Gigabit Ethernet port extension module with Portwell OmniPCI™ connection interface</p> <p><b>ROBO-N201G2</b> Dual Gigabit Ethernet port extension module with Portwell OmniPCI™ connection interface</p> <p><b>ROBO-N100P</b> Single Fast Ethernet port extension module with Portwell OmniPCI™ connection interface</p> <p><b>PA-M14U</b> Multimedia kit for P4 SBC with Audio and USB ports</p>

## General

<b>CPU</b>	CPU & Package: Intel® Pentium® 4 or Celeron® processor in the mPGA478 package FSB: 533/400MHz
<b>Chipset</b>	Intel® 845GV and ICH4
<b>Memory</b>	Up to 2GB DDR 266/200 SDRAM on two 184-pin DIMM sockets
<b>BIOS</b>	Award BIOS
<b>Display</b>	<ul style="list-style-type: none"> <li>- Intel GMCH integrated graphics controller</li> <li>- Dynamic 8 ~ 64MB shared display memory (Intel® DVMT)</li> <li>- Display resolution up to 2048x1536 @ 60Hz refresh</li> <li>- TMDS/LVDS interface support (factory optional)</li> <li>- Superior 2D, 3D and video performance</li> </ul>
<b>Ethernet</b>	<ul style="list-style-type: none"> <li>- 10BASE-T/100BASE-TX Ethernet</li> <li>- IEEE 802.3u auto-negotiation</li> <li>- One RJ-45 connector with two LED indicators</li> </ul>
<b>Audio</b>	AC'97 2.2 Audio
<b>SCSI</b>	N/A
<b>Expansion Interface</b>	Proprietary PCI connection interface
<b>ISA Bus</b>	64mA high driving ISA bus interface to backplane
<b>EIDE</b>	Support four EIDE devices with Ultra DMA 100/66/33
<b>Solid State Disk</b>	DOC socket for up to 384MB
<b>I/O</b>	<ul style="list-style-type: none"> <li>- Two serial, one parallel, one IrDA and three USB 2.0 ports</li> <li>- 8 high driving GPIO (programmable GPI or GPO)</li> <li>- One 6-pin mini-DIN connector for keyboard and mouse</li> <li>- One 5-pin header for external keyboard connection</li> </ul>
<b>ACPI Function</b>	<ul style="list-style-type: none"> <li>- ATX function with 4-pin header connect to backplane</li> <li>- Modem-Ring-On and Wake-On-LAN</li> </ul>
<b>Hardware Monitoring</b>	System monitor (fan, temperature, voltage)
<b>Watchdog Timer</b>	Programmable via software from 0.5 sec. to 254.5 min.
<b>Power Requirement</b>	+5@2.8A; +12V(CPU)@4.0A, +12V(System)@0.8A (typ.)
<b>Mechanical</b>	Dimension : 338.5(L) x 122(W) / 13.33"(L) x 4.8" (W) PCB : 8-layer
<b>Environmental</b>	Operating Temperature: 0 to 55°C Storage Temperature: -20 to 80°C Relative Humidity: 5% to 90%, non-condensing
<b>Approval</b>	CE, FCC Class A
<b>MTBF</b>	120,186 hrs