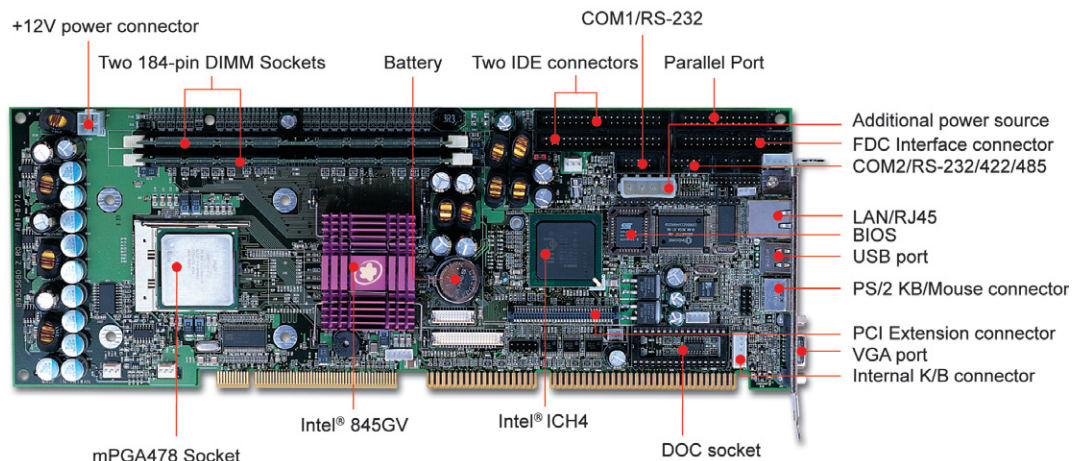


# ROBO-8712VLA

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



## FEATURES

- 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
- Standard features for embedded system deployment like H/W monitoring, WDT, SSD and Wake-On-LAN

## ORDERING GUIDE

<b>Standard</b>	<b>ROBO-8712VLA</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>	<b>ROBO-U160H</b> SCSI extension module with Portwell OmniPCI™ connection interface
	<b>ROBO-N201G</b> Single Gigabit Ethernet port extension module with Portwell OmniPCI™ connection interface
	<b>ROBO-N201G2</b> Dual Gigabit Ethernet port extension module with Portwell OmniPCI™ connection interface
	<b>ROBO-N100P</b> Single Fast Ethernet port extension module with Portwell OmniPCI™ connection interface
	<b>PA-M1AU</b> Multimedia kit for P4 SBC with audio and USB ports

## GENERAL

CPU	CPU & Package: Intel® Pentium® 4 or Celeron® processor in the mPGA478 package FSB: 533/400MHz
Chipset	Intel® 845GV and ICH4
Memory	Up to 2GB DDR 333/266/200 SDRAM on two 184-pin DIMM sockets
BIOS	Award BIOS
Display	- Intel GMCH integrated graphics controller - Dynamic 8 ~ 64MB shared display memory (Intel® DVMT) - Display resolution up to 2048x1536 @ 60Hz refresh - Superior 2D, 3D and video performance
Ethernet	- 10BASE-T/100BASE-TX Ethernet - IEEE 802.3u auto-negotiation - One RJ-45 connector with two LED indicators
Audio	AC'97 2.2 Audio
SCSI	N/A
Expansion Interface	Proprietary PCI connection interface
ISA Bus	64mA high driving ISA bus interface to backplane
EIDE	Support four EIDE devices with Ultra DMA 100/66/33
Solid State Disk	DOC socket for up to 384MB
I/O	- Two serial, one parallel, one IrDA and three USB 2.0 ports - 4 high driving GPIO (programmable GPI or GPO) - One 6-pin mini-DIN connector for keyboard and mouse - One 5-pin header for external keyboard connection
ACPI Function	- ATX function with 4-pin header connect to backplane - Modem-Ring-On and Wake-On-LAN
Hardware Monitoring	System monitor (fan, temperature, voltage)
Watchdog Timer	Programmable via software from 0.5 sec. to 254.5 min.
Power Requirement	Typical: +5@2.8A; +12V(CPU)@4.0A, +12V(System)@0.8A
Mechanical	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
Approval	CE, FCC Class A
MTBF	120,186 hrs