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## ROBO-8712VLA

Pentium 4 processor based PICMG SBC with DDR SDRAM, AGP 4X VGA, LAN, audio and USB 2.0

### Highlight

Pentium 4 processor with 400/533 MHz PSB  
 200/266 MHz DDR SDRAM up to 2 GB  
 Intel 845GV chipset  
 Intel DVMT AGP 4X with 64 MB display memory  
 On-board Intel ICH4 Ethernet



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### Feature

- ✘ High quality and reliable design for wider range Pentium 4/Celeron processor support in 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
- ✘ 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



## General

<b>CPU</b>	⌘ Intel Pentium 4 processor in mPGA 478 package
<b>System Bus Frequency</b>	400/533 MHz
<b>Chipset</b>	Intel 845G/GV
<b>Memory</b>	⌘ Up to 2 GB 2.5V 200/266 MHz DDR SDRAM on two 184-pin DIMM sockets
<b>L2 Cache Memory</b>	Built-in CPU (256/512 KB)
<b>BIOS</b>	⌘ Award advanced first BIOS
<b>On-Board I/O</b>	⌘ Support for four EIDE devices with Ultra DMA/100 ⌘ Up to two floppy disk drives ⌘ Two serial, one parallel, one IrDA, and three USB 2.0 ports ⌘ 8 high driving GPIO (4GPI, 4GPO)
<b>Watchdog Timer</b>	⌘ Programmable via software from 0.5 sec. to 254.5 min. ⌘ Can be enabled/disabled by jumper
<b>Keyboard/Mouse</b>	⌘ One mini-DIN 6-pin connector for keyboard and mouse ⌘ One 5-pin header for external keyboard connection
<b>Expansion Interface</b>	Proprietary PCI expansion connector for SCSI and 2nd LAN and DVO connector (factory optional) for panel support
<b>ISA Bus</b>	64mA high driving ISA Bus interface to backplanes for legacy ISA slots
<b>Hardware Monitoring</b>	System monitor (fan, temperature, voltage)
<b>ATX Power Control</b>	ATX function with 4-pin header connect to backplane
<b>Power Consumption</b>	⌘
<b>Approval</b>	FCC, CE class A
<b>Dimension</b>	⌘ 338.5(L) x 122(W) mm ⌘ 13.33"(L) x 4.8"(W) ⌘ 8-layer PCB
<b>Operating Temperature</b>	0 to 55 °C
<b>Storage Temperature</b>	-20 to 75 °C
<b>Relative Humidity</b>	5% to 90%, non-condensing

## Additional Functionality

<b>Display</b>	⌘ Intel GMCH integrated graphics controller ⌘ Dynamic 8~64 MB shared display memory (Intel DVMT) ⌘ Display resolution up to 2048 x 1536 @ 60 Hz ⌘ TMDS/LVDS Interface support (factory optional) ⌘ Superior 2D, 3D and video performance
<b>Ethernet</b>	⌘ 10BASE-T/100BASE-TX Ethernet with IEEE 802.3u auto-negotiation support ⌘ One RJ-45 connector with two LED indicators for LAN access and link status ⌘ Modem-Ring-On and Wake-On-LAN ⌘ 2nd LAN available thru daughter board (ROBO-N100)
<b>Audio</b>	⌘ AC '97 2.0
<b>Solid State Disk</b>	⌘ DOC socket for up to 288 MB
<b>SCSI</b>	Adaptec AIC 7892 single channel Ultra 160 SCSI controller (optional)

## Ordering Guide

<b>ROBO-8712VLA</b>	Pentium 4 processor based PICMG SBC with DDR SDRAM, AGP 4X VGA, LAN, audio and USB 2.0
<b>ROBO-V2DL</b>	DVO to LVDS panel convert board
<b>ROBO-V2DT</b>	DVO to TMDS/DVI-D convert board
<b>Accessory</b>	



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