ROBO-8712VLA
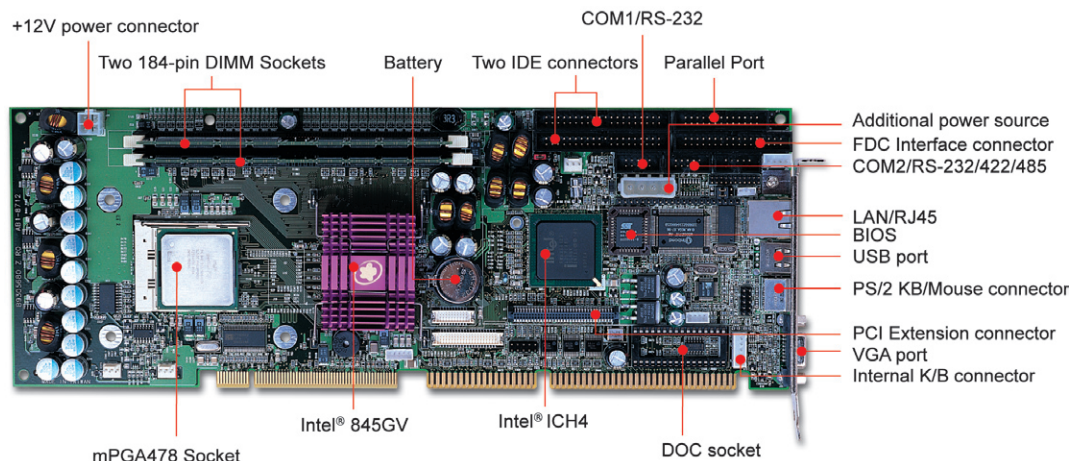
Intel® Pentium® 4 or Celeron® processor based PICMG SBC with DDR SDRAM, AGP VGA, Fast Ethernet, Audio and USB 2.0

+12V power connector
Two 184-pin DIMM Sockets
Battery
Two IDE connectors
COM1/RS-232
Parallel Port
Additional power source
FDC Interface connector
COM2/RS-232/422/485
LAN/RJ45
BIOS
USB port
PS/2 KB/Mouse connector
PCI Extension connector
VGA port
Internal K/B connector
mPGA478 Socket
Intel® 845GV
Intel® ICH4
DOC socket

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

Standard	**ROBO-8712VLA** Socket 478 Pentium® 4 or Celeron® processor based PICMG SBC with DDR SDRAM, AGP VGA, Fast Ethernet, audio and USB 2.0
Optional	**ROBO-U160H** SCSI extension module with Portwell OmniPCI™ connection interface
	ROBO-N201G Single Gigabit Ethernet port extension module with Portwell OmniPCI™ connection interface
	ROBO-N201G2 Dual Gigabit Ethernet port extension module with Portwell OmniPCI™ connection interface
	ROBO-N100P Single Fast Ethernet port extension module with Portwell OmniPCI™ connection interface
	PA-M1AU 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 55ºC Storage Temperature: -20 to 80ºC Relative Humidity: 5% to 90%, non-condensing
Approval	CE, FCC Class A
MTBF	120,186 hrs