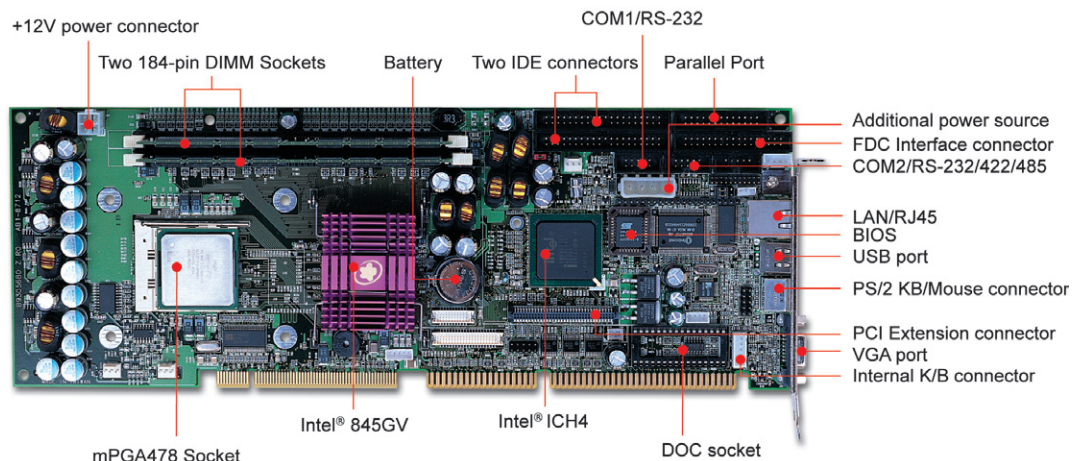


ROBO-8712VLA

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

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 55°C Storage Temperature: -20 to 80°C Relative Humidity: 5% to 90%, non-condensing |
| Approval | CE, FCC Class A |
| MTBF | 120,186 hrs |