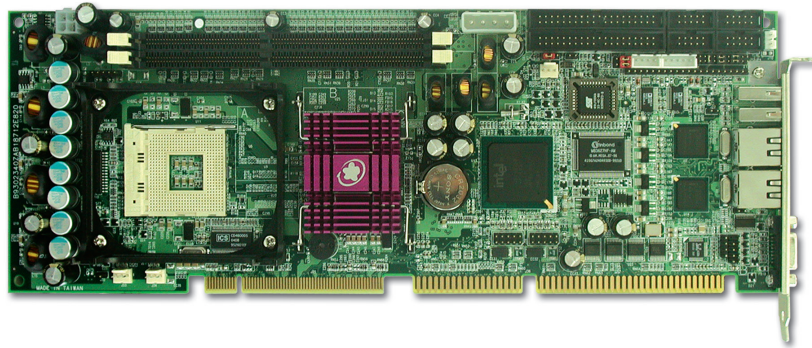# ROBO-8712EVG2A

Intel® Pentium® 4 or Celeron® processor based PICMG SBC with DDR, VGA, Dual Gigabit Ethernet, Audio and USB 2.0

FEATURES

- High quality and reliable design for wider range Intel® Pentium® 4/Celeron® (0.13 micron & 90 nm process) processor support mission critical operation

- Support Mobile Intel® Pentium 4-M processor for low power consumption application

- 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

- Dual on-board Gigabit Ethernet for network redundancy application

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

ORDERING GUIDE

Standard	ROBO-8712EVG2A Socket 478 Pentium® 4 or Celeron® processor based PICMG SBC with DDR, VGA, Dual Gigabit Ethernet, Audio and USB 2.0
Optional	PA-M1AU Multimedia kit for P4 SBC with Audio and USB ports

GENERAL

CPU	CPU & Package: Intel® Pentium® 4/Celeron® or Mobile Intel® Pentium 4-M processor in the mPGA478 package FSB: 533/400MHz
Chipset	Intel® 845GV and ICH4
Memory	Up to 2GB DDR 333/266 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/1000BASE-T Ethernet - IEEE 802.3u auto-negotiation - Dual RJ-45 connector with two LED indicators
Audio	AC'97 2.2 Audio
SCSI	N/A
Expansion Interface	N/A
ISA Bus	64mA high driving ISA bus interface to backplane
EIDE	Support four EIDE devices with Ultra DMA 100/66/33
Solid State Disk	- One Type II CF socket - On secondary EIDE channel - Bootable for no drives on primary channel
I/O	- Two serial (RS-232x1, selectable RS-232/422/485x1) & one IrDA 1.0 - Six USB 2.0 ports (Two ports on bracket for keyboard & Mouse) - 4 high driving GPIO (programable GPI or GPO)
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	TBA
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