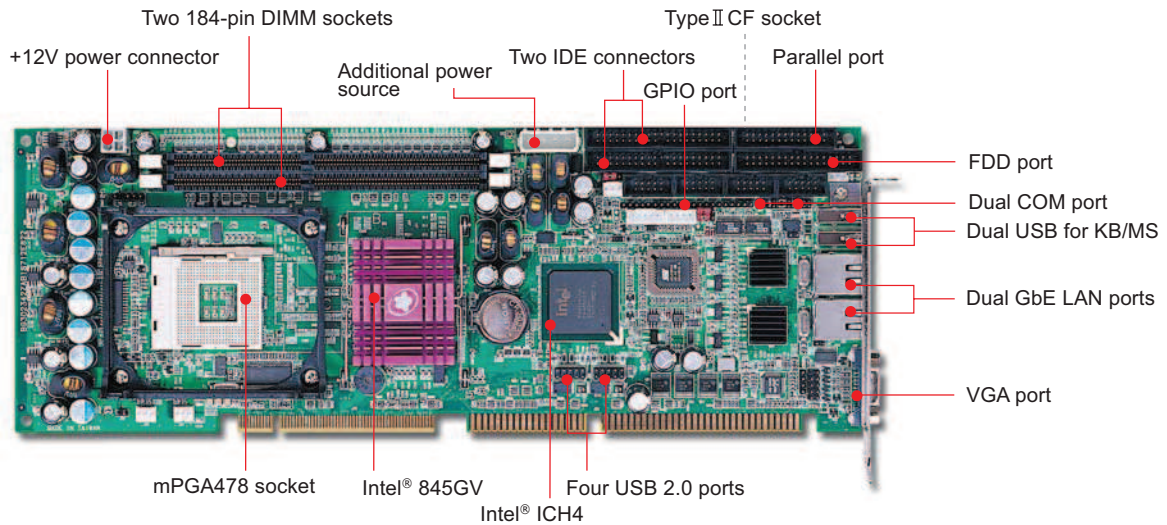


# ROBO-8712EVG2A

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



## FEATURES

- High quality and reliable design for wider range Intel® Pentium® 4/Celeron® (D) (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

<b>Standard</b>	<p><b>ROBO-8712EVG2A</b> Socket 478 Pentium® 4 or Celeron® (D) processor based PICMG SBC with DDR SDRAM, VGA, dual Gigabit Ethernet, audio and USB 2.0</p> <p><b>ROBO-8712EVLA</b> Socket 478 Pentium® 4 or Celeron® (D) processor based PICMG SBC with DDR SDRAM, VGA, Fast Ethernet, audio and USB 2.0</p>
<b>Optional</b>	<p><b>PA-M1AU</b> Multimedia kit for P4 SBC with audio and USB ports</p> <p><b>PS/2 Keyboard/Mouse Cable with Bracket</b> PS/2 keyboard / mouse connectors on bracket</p>

“\*” Represents to be “over-clocking”

## GENERAL

Processor	CPU & Package: Intel® Pentium® 4 or Celeron® (D) or Mobile Intel® Pentium® 4-M processor in the mPGA478 package FSB: 800*/533/400MHz
Chipset/Core Logic	Intel® 845GV and ICH4
System Memory	Up to 2GB DDR 400*/333/266 SDRAM on two 184-pin DIMM sockets
BIOS	Award BIOS
Storage Devices	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
Watchdog Timer	Programmable via software from 0.5 sec. to 254.5 min.
Expansion Interface	N/A
Hardware Monitoring	System monitor (fan, temperature, voltage)
Power Requirement	Typical: +5V@4.0A; +12V(CPU)@6.76A; +12V (system)@0.02A
Dimension	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
MTBF	96,119 hrs

## I/O

MIO	Two serial (RS-232 x1, selectable RS-232/422/485 x1), one parallel, one FDD channel
IrDA	IrDA 1.0
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
USB	Six USB 2.0 ports
Keyboard & Mouse	Two ports USB 2.0 on bracket dedicated to Keyboard & Mouse

## DISPLAY

Graphic Controller	Intel® GMCH integrated graphics controller
Graphic Memory	Dynamic 8 ~ 64MB shared display memory (Intel® DVMT)
Display Interface	Display resolution up to 2048x1536 @ 60Hz refresh