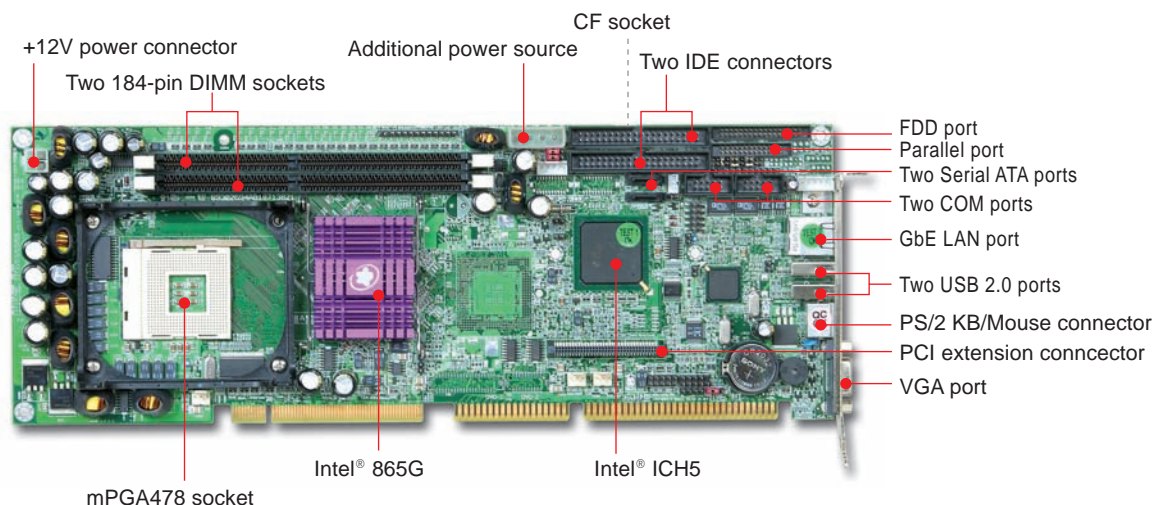# ROBO-8713VGA

Intel® Pentium® 4 or Celeron® D processor based PICMG SBC with DDR 400 SDRAM, AGP 8X VGA, Gigabit Ethernet and Audio

+12V power connector
Two 184-pin DIMM sockets
CF socket
Additional power source
Two IDE connectors
FDD port
Parallel port
Two Serial ATA ports
Two COM ports
GbE LAN port
Two USB 2.0 ports
PS/2 KB/Mouse connector
PCI extension conncector
VGA port
mPGA478 socket
Intel® 865G
Intel® ICH5

FEATURES

- Intel® Pentium® 4 processor with Hyper-Threading technology runs at 800MHz FSB

- Wire-speed Gigabit Ethernet based on Communication Streaming Architecture (CSA) with double throughput than PCI based Ethernet

- Rich expansion capability thru proprietary PCI

ORDERING GUIDE

Standard	**ROBO-8713VGA** Socket 478 Pentium® 4 or Celeron® D processor based PICMG SBC with DDR 400 SDRAM, integrated graphic, Gigabit Ethernet and audio
Optional	**ROBO-U160H** SCSI 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

Processor	CPU & Package: Intel® Pentium® 4 or Celeron® (D) processor in mPGA478 package FSB: 800/533/400MHz
Chipset/Core Logic	Intel® 865G and ICH5
System Memory	Up to 2GB dual channel DDR 400/333/266 SDRAM on two 184-pin DIMM sockets
BIOS	Award BIOS
Storage Devices	EIDE: Support four EIDE devices with Ultra DMA 100/66/33 SATA: Support two SATA 150 devices
Solid State Disk	- One Type II CF socket - On Secondary EIDE channel
Watchdog Timer	Programmable via software from 0.5 sec. to 254.5 sec.
Expansion Interface	Proprietary PCI connection interface
Hardware Monitoring	System monitor (fan, temperature, voltage)
Power Requirement	Typical: +5V@6.0A; +12V(CPU)@5.7A; +12V (system)@0.8A
Dimension	Dimension : 338.5(L) x 122(W) mm; 13.33"(L) x 4.8" (W) PCB: 8-layer
Environment	Operating Temperature: 0 to 50ºC Storage Temperature: -20 to 80ºC Relative Humidity: 5% to 90%, non-condensing
MTBF	98,733 hrs

I/O

MIO	Two serial (selectable RS232/422/485 x1), one parallel, one FDD channel
IrDA	IrDA 1.0
Ethernet	- 10BASE-T/100BASE-TX/1000BASE-T Ethernet - Gigabit Ethernet via CSA interface - One RJ-45 connector with two LED indicators
Audio	AC'97 2.2 Audio (Realtek ALC 202A)
USB	Four USB 2.0 ports (two on bracket)
Keyboard & Mouse	- One 6-pin mini-DIN connector for keyboard and mouse - One 5-pin header for external keyboard connection

DISPLAY

Graphic Controller	Intel® 865 integrated Extreme Graphics 2.0
Graphic Memory	64MB display memory
Display Interface	Support CRT display interface