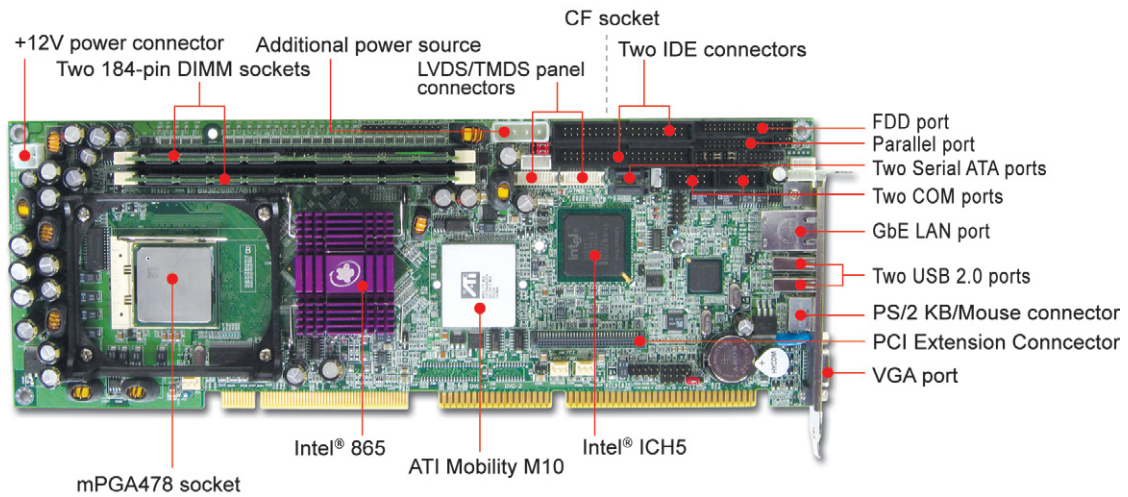


ROBO-8713UGA

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



FEATURES

- Intel® Pentium® 4 processor with Hyper-Threading technology runs at 800MHz FSB
- ATI M10 graphics support dual view of LCD/CRT, TV/CRT, LCD/LCD and LCD/TV displays configuration
- Wire-speed Gigabit Ethernet based on Communication Streaming Architecture (CSA) with double throughput than PCI based Ethernet
- Scalable graphics supports from Intel® 865 integrated Extreme Graphics 2 to ATI M10 graphics controller integrated 64MB display memory via AGP 8X
- Rich expansion capability thru proprietary PCI

ORDERING GUIDE

Standard	<p>ROBO-8713UGA Socket 478 Pentium® 4 or Celeron® (D) processor based PICMG SBC with DDR 400 SDRAM, M10 w/ 64MB via AGP 8X, Gigabit Ethernet and audio</p> <p>ROBO-8713VGA Socket 478 Pentium® 4 or Celeron® (D) processor based PICMG SBC with DDR 400 SDRAM, integrated graphic, Gigabit Ethernet and audio</p>
Optional	<p>ROBO-U160H SCSI extension module with Portwell OmniPCI™ connection interface</p> <p>ROBO-N201G Single Gigabit Ethernet port extension module with Portwell OmniPCI™ connection interface</p> <p>ROBO-N201G2 Dual Gigabit Ethernet port extension module with Portwell OmniPCI™ connection interface</p> <p>ROBO-N100P Single Fast Ethernet port extension module with Portwell OmniPCI™ connection interface</p> <p>DVI-D Cable TMDS adapter cable for DVI interface flat panel</p> <p>PA-M1ATU (ROBO-8713UGA) Multimedia kit for P4 SBC with audio, TV out and USB ports</p> <p>PA-M1AU (ROBO-8713VGA) Multimedia kit for P4 SBC with audio and USB ports</p> <p>CABLE-HDD-SATA Adapter cable for hard drive type power connector to SATA power connector</p>

GENERAL

CPU	CPU & Package: Intel® Pentium® 4 or Celeron® (D) processor in the mPGA478 package FSB: 800/533/400MHz
Chipset	Intel® 865 and ICH5
Memory	Up to 2GB dual channel DDR 400/333/266 SDRAM on two 184-pin DIMM sockets
BIOS	Award BIOS
Display	- ATI Mobility M10 graphics controller (ROBO-8713UGA) <ul style="list-style-type: none"> * 64MB display memory * TMDS & LVDS interfaces support * Dual View support * TV out -Intel® 865 integrated Extreme Graphics 2.0 (ROBO-8713VGA)
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
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	- One Type II CF socket - On secondary EIDE channel - Bootable for no drives on primary channel
I/O	- Support two SATA 150 devices - Two serial, one parallel, one IrDA and four USB 2.0 ports (two on bracket) - 8 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: +5V@6.0A; +12V(CPU)@5.7A; +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 50°C Storage Temperature: -20 to 80°C Relative Humidity: 5% to 90%, non-condensing
Approval	CE, FCC Class A
MTBF	86,998 hrs