ROBO-668
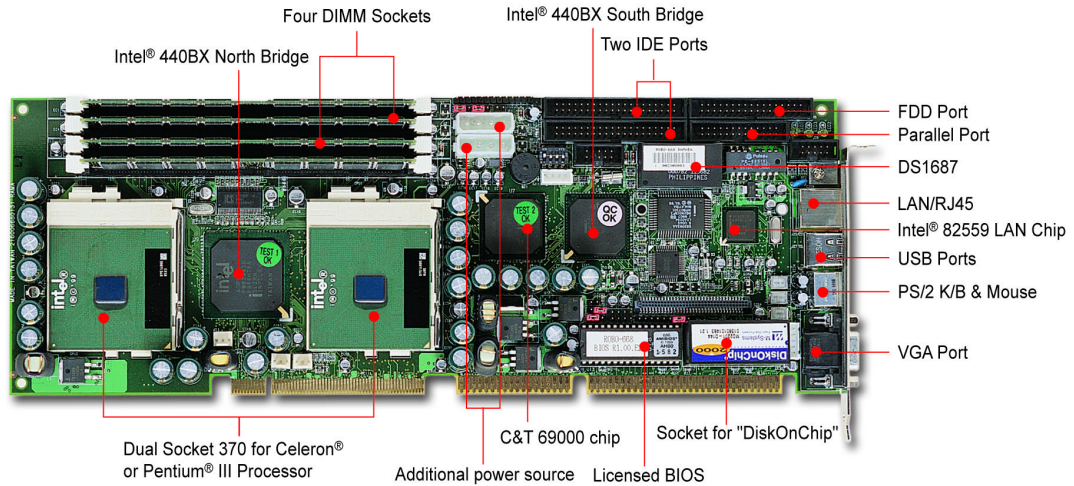
Dual Socket 370 Intel® Pentium® III Celeron® processors based PICMG SBC with AGP VGA and Fast Ethernet

Callout labels around the board image:
- Four DIMM Sockets
- Intel® 440BX North Bridge
- Intel® 440BX South Bridge
- Two IDE Ports
- FDD Port
- Parallel Port
- DS1687
- LAN/RJ45
- Intel® 82559 LAN Chip
- USB Ports
- PS/2 K/B & Mouse
- VGA Port
- Dual Socket 370 for Celeron® or Pentium® III Processor
- C&T 69000 chip
- Socket for "DiskOnChip"
- Additional power source
- Licensed BIOS

Feature

- **Reliable design for high speed single or dual Intel® Pentium® III or Celeron processors**
- **Intel® 440BX AGPset, the most stable and highly market recognized chipset from Intel®**
- **PC100 MHz SDRAM for cost effective memory support up to 1GB**
- **ECC function for data sensitive application**
- **C&T 69000 and 2MB SDRAM provide a high performance, low power, highly integrated solution and versatile panel support**
- **On-board Intel® 10BASE-T/100BASE-TX Fast Ethernet for high speed data transfers**
- **Standard features for embedded system, like H/W monitoring, WDT, SSD and Wake-on-LAN**
- **Proprietary PCI connector for expansion (optional daughter board provided, such as Ultra 160 SCSI or Fast Ethernet)**

Specifications

CPU	- Intel® Pentium® III processors in the FC-PGA 370 package
	- Intel® Celeron® processors in the PPGA & FC-PGA 370 package
	- Single or dual processors
System Bus Frequency	66/100 MHz
Chipset	Intel® 82440BX AGPset
Memory	Up to 1GB PC100 SDRAM on four 168-pin DIMM sockets
BIOS	AMI BIOS
On-Board I/O	- On-board Winbond W83977ATF super I/O
	- Support for four PCI Bus Master EIDE devices with Ultra DMA/33
	- Up to two floppy disk drives
	- Two serial, one parallel, one IrDA and two USB ports (only one available when installed into standard chassis)
Watchdog Timer	- Programmable via software from 0.5 sec. to 254.5 min.
	- Can be enabled/disabled by jumper
Keyboard/Mouse	One mini-DIN 6-pin connector for keyboard and mouse
	One 5-pin header for external keyboard connection
Expansion Interface	Proprietary PCI connection interface
ISA Bus	64mA high drivig ISA bus interface to backplane for legacy ISA slots
Hardware Monitor	System monitor (fan, temperature, voltage)
ACPI Function	- ATX function with 4-pin header connect to backplane
	- Modem-Ring-On and Wake-On-LAN
Power Consumption	+5V@10A ; +12V@80mA, -12V@20mA
Approval	FCC, CE class A
Board Dimension	- 338.5(L) x 129(W) mm ;13.33"(L) x 5.1"(W)
	- 8-layer PCB
Operating Temperature	0 to 55 ºC
Storage Temperature	-20 to 75 ºC
Relative Humidity	5% to 95%, non-condensing

Ordering Guide

ROBO-668

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Additional Functionality

Display	- C&T 69000 video display chip
	- 2MB display memory
	- Display resolution up to 1280x1024 at refresh rates 60Hz
	- Support for CRT display
	- DB15 connector
Ethernet	- 10BASE-T/100BASE-TX Ethernet
	- IEEE 802.3u auto-negotiation support
	- One RJ-45 connector
	- 2nd LAN available thru daughter board (ROBO-N100)
Solid State Disk	DOC socket for up to 288MB
SCSI	Adaptec AIC 7892 single channel Ultra 160 SCSI controller thru ROBO-U160 (optional)