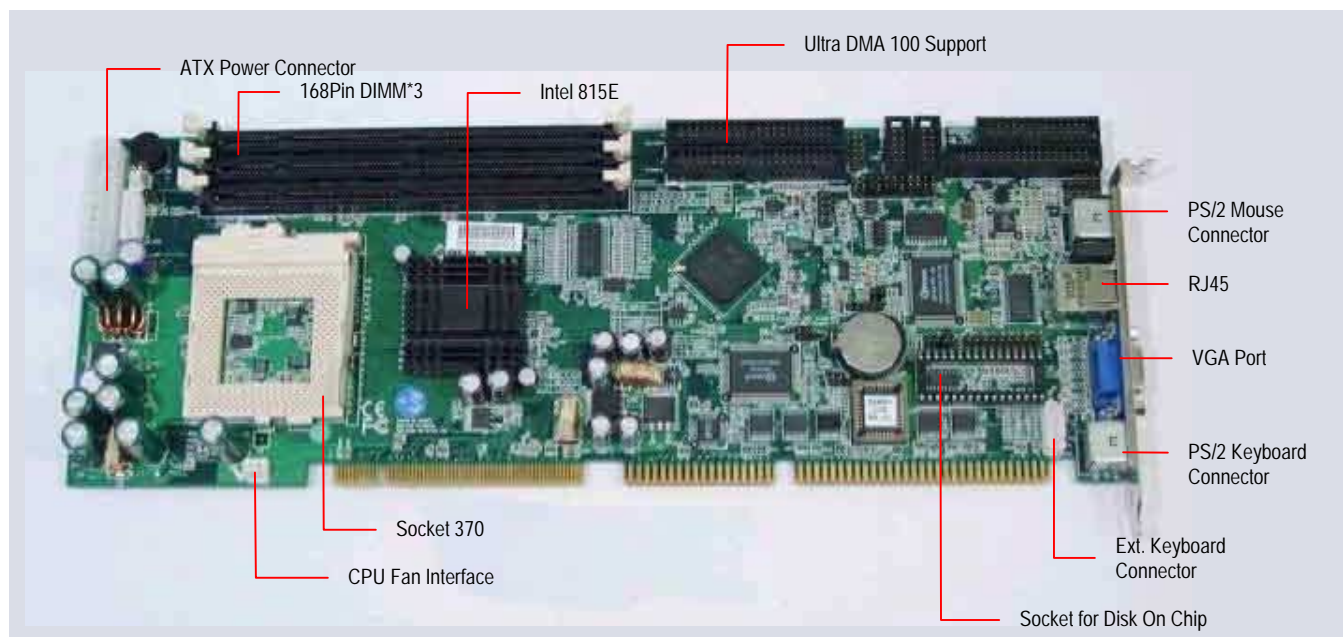


# MSC-3685A



Socket 370 Intel 815E SBC with  
VGA / LAN / SSD



## Introduction

The MSC-3685A is an industrial-strength slot board computer which allows connection to VGA(CRT), LAN, and other enhanced I/O interfaces. With the Intel Socket 370 processor, the MSC-3685A achieves outstanding performance in a package for value-conscious applications.

The VGA display supports CRT displays with a display memory of up to 32MB/64MB (Dynamic share with system memory). Three 168-pin DIMM sockets are provided on the card, which can be installed with up to 512MB of memory. It also offers several industrial features such as a 3-level watchdog timer with jumper-less setup and an on-board 10/100 Base-T networking connection. The MSC-3685A is a highly reliable line of CPU card perfect for IPC applications of computer telephony integration applications.

## Features

- Support Intel Celeron (Socket 370) or Pentium III (FC-PGA 370pin)
- Intel 815E Chipset
- 3 x 168-pin DIMM sockets UP to 512MB
- Bus master IDE and Ultra DMA-33/66/100 supported
- 256-level watchdog timer (software setting)
- M-systems Disk On Chip flash disk, supports up to 144MB
- VGA controller for CRT displays
- Auto-switching 10/100 Base-T Ethernet on board
- H/W monitoring IC for CPU voltage, chassis & CPU fan speeds
- Supports two USB ports
- Supports IrDA
- Supports modem ring-on, Win95/98 shut-off
- Supports PC98/99 ACPI power management

# MSC-3685A Socket370 815E SBC with VGA/LAN/SSD

## Specifications

Processor	Intel Celeron (Socket 370) or Pentium III (FC-PGA 370 pin)
CPU Speed	Up to 1GHz
BUS Clock Rate	66/100/133 MHz
Chipset	Intel 815E Chipset
BIOS	Award PnP flash BIOS
Cache	Integrated in CPU
Main Memory	Three 168-pin DIMM sockets, Supports up to 512MB
IDE Interface	Two channels for up to four IDE devices Support bus master Ultra DMA 33/66/100
FDD Interface	Supports up to two floppy disk drives
Serial Port	One RS-232 and One RS-232 / 422 / 485
Parallel Port	One ECP/EPP/SPP parallel port
Disk On Chip	M system Disk On Chip flash disk 2MB to 144MB storage capacity
Keyboard/Mouse Connectors	PS/2 connector and 5-pin abounded external keyboard connector PS/2 6-pin mouse connector
Watchdog Timer	256-level (software setting)
USB	Two USB ports
IrDA	One IrDA connector
Power Management	Supports PC97/98 ACPI
Power connector	20-pin header for ATX power
Power Supply Voltage	+5V (4.75-5~25V) +12V (11.4~12.6V)
Other Features	Switching voltage regulator Supports AGP 2x Modem ring-on function

VGA Chipset	Build in 815E
Display Memory	32MB/64MB (Dynamic share with system memory)
Display Type	Supports CRT
Display Resolution	Supports non-interface CRT Displays up to 1600x1200
LAN Chipset	Build in ICH2 of 815E
Ethernet Bus	10/100 Base-T Ethernet RJ-45 connector on board
Hardware Monitoring Chipset	Build in Winbond W83627HF
Monitoring	CPU temperature, system temperature, voltage, CPU and chassis fan speeds
ISA Buffer	ISA Buffer for enhancement of ISA extension
Dimensions (L x W)	338mm x 122mm (13.3" x 4.8")
Operating Temperature	0 °C ~ 60 °C (32 °F ~ 140 °F)
Storage Temperature	-20 °C ~ +85 °C (-4 °F ~ 185 °F)
Relative Humidity	5% ~ 85%, Non-condensing
EMI/EMC	CE Class A compliant FCC Class A approved
MTBF	50,000 hrs

Note: Specification is subject to change without notice.



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