

IRV-686H SBC



DESCRIPTION

The MCSI IRV-686H Pentium/MMX All-In-One Single Board Computer (SBC) contains all the basic elements found in a high-performance IBM PC/AT compatible desktop computer system plus some unique features which make it ideally suited for industrial applications. The most outstanding features include: An optional 32MB PROMDISK-Chip™ Disk Emulator, a PCI EIDE hard disk port to support 2 EIDE drives, a high performance multi-I/O controller, a high performance PCI VGA controller and graphics accelerator, a WatchDog timer, a 1K-bit E²Key memory for user data, and a PC/104 expansion port. The board uses the SIS-5598 Chipset with integral VGA controller. The multi-I/O controller includes: dual 16C550 UARTs, a floppy port, and a SPP/EPP/ECP multi-mode bi-directional parallel port. The optional PROMDISK-Chip Disk Emulator comes complete with ROM-DOS version 6.22, making it ideal for embedded diskless applications. The 1K-bit E²Key memory is a non-volatile memory is useful for storing user data, such as: critical system parameters, terminal address, etc. The PC/104 expansion bus allows easy installation of thousands of different PC/104 modules available world wide. The WatchDog timer is ideal for controlling critical processes where unattended operation is essential. The IRV-686H Pentium SBC was specifically designed to operate in extreme industrial environments, and has an operating temperature range of 0° to 60°C.

FEATURES

- Supports Intel Pentium/MMX, AMD K6-2, and Cyrix 6x86/M2 Microprocessors up to 33MHz.
- SIS-5598 Chipset
- 512K Pipelined Burst Mode Cache
- AWARD Plug-n-Play *Flash* BIOS
- DRAM Expandable to 128M-bytes (2-72-pin SIMM sockets)
- PCI EIDE Hard Disk Port (Supports up to 2 Drives)
- Optional 32MB PROMDISK-Chip™ Disk Emulator
- PCI VGA Controller and Graphics Accelerator
- PS/2 (PC/AT) Compatible Keyboard Port (not required for booting)
- WatchDog Timer
- Two 16C550 Compatible RS-232 Serial Ports
- Bi-directional Parallel Port with SPP/EPP/ECP Function
- Floppy Disk Controller Supports Two 3.5" or 5.25" Drives with Capacities to 2.88M-bytes
- Clock/Calendar on-board Lithium Battery
- Y2K Compliant

IRV-686H SBC Half-Size Pentium SBC with VGA

IRV-686H SBC

SPECIFICATIONS

CPU:	Intel Pentium/MMX, AMD K6-2, and Cyrix 6x86/M2 Processors up to 333MHz.
Co-processor:	Internal to the CPU Chip
Memory:	System Memory and EMS Memory: Expandable to 128M-bytes. Supports: 1MB, 2MB, 4MB, 8MB, 16MB, 32MB, or 64MB SIMMs using two 72-pin SIMM sockets. On-board Cache Memory: 512KB high-speed Pipelined Burst Cache Memory.
BIOS:	AWARD Plug-n-Play 64K (Flash EPROM) with Internal SETUP and power management.
I/O Bus:	ISA Compatible Bus (98-pin Edge Connector)
PC/104 Bus:	PC/104 ISA Bus (64-pin & 40-pin Header/Connectors)
DMA:	7 Channels (4 8-bit and 3 16-bit)
Timers:	3 Programmable
Interrupts:	16
Reset:	External reset switch input
I/O Ports:	2 - RS-232 Serial Ports 1 - Parallel Port 1 - PS/2 Compatible Keyboard Port 1 - PS/2 Mouse Port 1 - Speaker Port with on-board speaker 1 - 3.5"/5.25" Dual Floppy Disk Port 1 - EIDE Hard Disk Port 1 - WatchDog Timer: 1, 2, 10, 20, 110, or 220 sec 1 - USB Ports 1 - Infrared Data Port
PROMDISK®:	1-32-pin socket supports MCSI PROMDISK-Chip™
VGA Port:	Chipset: SIS 5598 VGA Video Controller Bus: Internal PCI Bus VRAM: 4M-bytes Resolution: 1280x1024 256 colors Video Connectors: 15-pin DIN J1, and 10-Pin header JP2.
Speed:	Up to 266MHz
Battery:	Lithium for CMOS RAM & Clock/Calendar
Size:	Half Size AT-type board 7.08"L X 4.8"H
Power:	+5VDC @ 3.8A, ±12VDC @ 0.070A

ORDERING INFORMATION

The IRV-686H SBC can be ordered in the following configurations:

<i>Part Number</i>	<i>Description</i>
88300	IRV-686H without CPU
88320	IRV-686H/133MHz
88345	IRV-686H/166MHz
88360	IRV-686H/233MHz
88380	IRV-686H/300MHz AMD K6

WARRANTY

All MCSI products carry a two-year unconditional Warranty. Contact MCSI headquarters for OEM quantity purchase ordering information.

Specifications Subject to Change without Notice



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