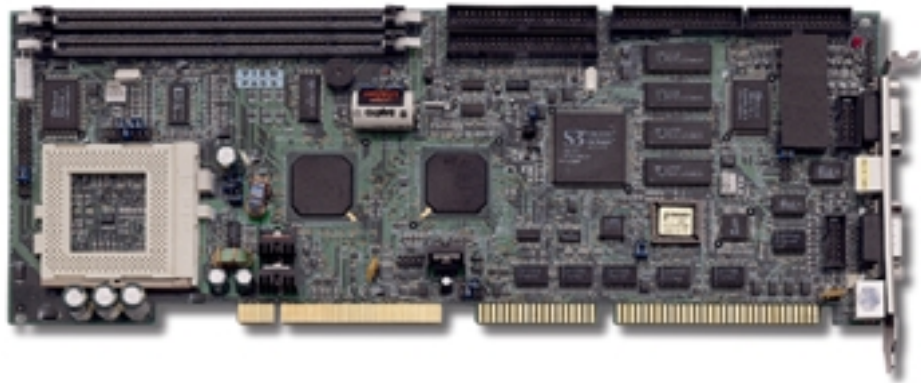


IRV-686 SBC



DESCRIPTION

The MCSI IRV-686 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, dual PCI EIDE hard disk ports to support 4 EIDE drives, a high performance multi-I/O controller, a WatchDog timer, a 1K-bit E²Key memory for user data, and user application addresses in the BIOS extension region of C800-EFFF. The board uses the Intel 430TX PCI Chipset which is PCI 2.1 compliant, and the S3 Virge/DX 3D 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 WatchDog timer is ideal for controlling critical processes where unattended operation is essential.

The IRV-686 SBC is fully compatible with the IBM PC/AT ISA Bus and the PCI Bus version 2.1 which means virtually all the software written for the IBM PC/AT will run on the IRV-686 SBC.

FEATURES

- IBM PC/AT Compatible Plug-in Computer
- Supports 233MHz Pentium/MMX, AMD K6-2 and Cyrix 6x86 type CPUs up to 333MHz
- 256M-Byte High Performance SDRAM System Memory (2-168 pin DIMMs)
- 512KB Pipelined Burst Mode Secondary Cache
- PS2/AT Compatible Keyboard and Mouse Port
- Two High Speed 16C550 Compatible RS-232 Serial Ports
- S3 Virge/DX 3D VGA Controller and 2MB EDO Video Ram
- Optional 32MB PROMDISK-Chip™ Disk Emulator
- WatchDog Timer and Power Monitor
- Two Enhanced PCI Dual IDE Hard Disk Port
- 1K-bit E²Key Memory for Storing User Data
- AWARD Plug-n-Play Flash BIOS
- Universal Serial Bus Port
- Y2K Compliant

IRV-686 SBC IS/PCI Pentium SBC with VGA

IRV-686 SBC

SPECIFICATIONS

CPU:	Supports: 233MHz Intel Pentium/MMX, 266Mhz Cyrix 6x86MX, and the 300MHz AMD K6
Co-processor:	Internal to the CPU Chip
Memory:	System Memory: Expandable to 256M-bytes. Supports: 8MB, 16MB, 32MB, 64MB, or 128MB SDRAM DIMMS using two 168-pin DIMM 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.
PCI Bus:	PCI Compatible Bus (124-pin Edge Connector)
I/O Bus:	ISA Compatible Bus (98-pin Edge Connector)
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 2 - Dual EIDE Hard Disk Ports 1 - WatchDog Timer: 1, 2, 10, 20, 110, or 220 sec 2 - USB Ports 1 - Infrared Data Port
PROMDISK®:	1-32-pin socket supports MCSI PROMDISK-Chip™
VGA Port:	Chipset: S3 Virge/DX Video Controller Bus: VESA Local Bus VRAM: 2M-bytes Resolution: 1280x1024 256 colors Video Connectors: 15-pin DIN J1, and 10-Pin header JP2.
Speed:	Up to 300MHz
Battery:	Lithium for CMOS RAM & Clock/Calendar
Size:	Full Size AT-type board 13.3"L X 4.8"H
Power:	+5VDC @ 2.5A, ±12VDC @ 0.070A

ORDERING INFORMATION

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

<i>Part Number</i>	<i>Description</i>
88200	IRV-686 without CPU
88220	IRV-686/133MHz
88240	IRV-686/166MHz
88260	IRV-686/233MHz
88280	IRV-686/300MHz 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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