



# Pentium Pro Single Board Computer



# FEATURES

- Pentium Pro Power
- Intel 440FX Chip Set
- With or Without SVGA Video
- SCSI-3 Controller
- To 256MB On-board DRAM

# DESCRIPTION

The SB686P series offer full Pentium Pro processor power and compatibility employing the Intel 440FX chip set. The on-board features include IDE, floppy and SCSI drive support as well as serial and parallel interfaces, and

**SPECIFICATIONS** 

# **Processors Supported**

Intel Pentium Pro Processor

# **Processor Speeds Supported**

180MHz And 200MHz Upgradable To Future Pin Compatible Processors "Socket 8" ZIF Socket Fan Cooled Heat Sink Provided

# **Chip Set**

Intel 80440FX

# BIOS

AMI Hiflex Bios, Plug N' Play Compatible Flash Upgradable

# Bus Clock Rate

PCI Bus 33MHz @ 200MHz PCI 2.1 Compliant ISA Bus To Run At Fixed Clock Rates, Dependent Upon Processor Clock Rate. 24ma ISA Bus Drive Current Support For Bridge To Additional PCI Slots

a PS/2 mouse port. The SB686PV includes an on-board

Cirrus Logic SVGA video port with 1MB RAM standard

for PCI video performance without the use of an additional

expansion slot. The ISA bus drivers offer an enhanced 24mA output to beef up the 440FX chipset standard

# Cache

output.

256k OR 512k L2 Cache On Processor

# Dram

Memory Capacity To Be 8 To 256MB On-Board DRAM Four 72 Pin Tin Lead PS/2 Style Sockets, Two banks of two sockets each 36 Or 32bit SIMMs, 1x3x, 2x3x, 4x3x, 8x3x, 16x3x, 60 Or 70ns Fast Page Mode Or EDO SIMMs, Automatic Support Parity Or Non-Parity supported



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# SPECIFICATIONS CONT.

# CONTROLLERS

# EIDE

Dual Controllers, Two Drives Each On PCI Local Bus

PIO Mode 4 Support, Automatic Drive Detection Can Be Totally Disabled

## **Floppy Controller**

Support For 360K Through 2.88MB Drives Can Be Totally Disabled

## **SCSI-3**

Adaptec AIC-7880P Ultra Narrow/Wide, Single Ended 256 byte Data FIFO To 40MB/S Data Throughput Support 133MHz Burst Data Rate to PCI Bus 68 Pin high density D-shell on board Can Be Totally Disabled

# Video Port (SB686PV Models Only)

VGA Video Output Using Cirrus Logic 64-bit GD5446 Controller. 1MB EDO DRAM Standard, Sockets For 2<sup>nd</sup> MB EDO DRAM On Board True Color to 800x600 with 1MB True Color to 1024x768 with 2MB To 1280x1024 Non-interlaced with 16k Colors 135MHz Maximum Dot Clock Connector on the rear panel bracket DB15S Connector On Rear Bracket. (No Hole On Non-Video Model)

## **Dual Serial Ports**

16C550 Compatible, FIFO Buffer. Serial Port 1 Connector At Rear Panel (DB-9P) Serial Port 2, 10 Pin Header To DB9P Connector On Separate Bracket Shared With Parallel Port. Isolated To 1500VDC Can Be Totally Disabled

# **ORDERING GUIDE**

# Model SB686P200

Pentium Pro Processor, 256k Cache, Fan Cooler, Manual, Driver Disks

# Model SB686PV200

Pentium Pro Processor, 256k Cache, SVGA Video, Fan Cooler, Manual, Driver Disks

# Model SB686P5200

Pentium Pro Processor, 256k Cache, SVGA Video, Fan Cooler, Manual, Driver Disks



## **Single Parallel Port**

Bi-directional Capability, EPP And EPC Enhanced Printer Port Modes. Header Connector On-Board; Cable To DB25P On Separate Bracket Shared With COM2. Can Be Totally Disabled

# **PS/2 Mouse Port**

Mini-Din Connector On Rear Bracket, 5 Pin Header Connector On Board. Microsoft Compatible. Can Be Totally Disabled

#### **Keyboard Port**

Header Connector On-Board. Self Healing Fuse.

#### **Speaker Port**

Header Connector Provided.

#### Hardware Reset

Header Connector On-Board

#### Watchdog Timer

User Programmable Can Be Totally Disabled

#### **Operating Environment**

0 to 60°C 5 to 95% R.H., Non-Condensing Sea Level to 10,000' Altitude

#### Storage Environment

-40 to +85°C 5 to 95% R.H., Non-Condensing

# MTBF

Calculated With Mil-Hdbk-217-f, Ground Benign > 75,000 P.O.H. @ 25°C

#### Dimensions

Standard AT Feature Board Size In Length And Height

## **Power Requirements**

+5V@6.2 Amps typical +12V@100 mAmps typical -12V@100 mAmps typical VRM (Voltage Regulator Module) Required Specific to Processor 3.3VDC Monitored In Compliance With PCI 2.1

## Model SB686PV5200

Pentium Pro Processor, 256k Cache, SVGA Video, Fan Cooler, Manual, Driver Disks

# Model 3-274805-0

RAM Expansion for SVGA Video, Two Each Required

1-800-523-23

http:/www.indcompsrc.com

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