Four 168-pin DIMM sockets

Primary and secondary ATA/33 IDE connectors

External power connectors

Serial ports

Floppy drive connector

Parallel port connector

Ethernet port

USB connector

PS/2 mouse & keyboard connector

Intel 440Bx chipset

BIOS

Intel 82559 10/100 Ethernet

VGA display

Dual Intel Pentium III Socket 370 processors

C&T 69000 display interface

Socket for DiskOnChip

Features

· Intel Pentium III processors up to 850MHz with 100MHz system bus support

· Intel 440BX AGP chipset

· 4 DIMM sockets supporting up to 1GB SDRAM memory

· C&T 69000 VGA with 2MB integrated memory

· Onboard Intel 82559 Fast Ethernet controller

· DiskOnChip® socket that supports Flash Disk up to 144MB

· Wake-on LAN and Modem Ring On

· System monitoring

Support

· Superior pre-sales and post-sales technical support

· All products carry a two year warranty

The Aviant Dual BX Single board computer opens up the world of applied computing to a new realm of possibilities. Featuring dual Intel Pentium III processor support, this board provides the processing muscle required for new and sophisticated internet, computer telephony and telecommunications applications as well as for typical rugged system implementations.

The Intel 440BX AGP chipset utilizes the system bus at 100MHz to provide stable and dependable performance. Using realiable components such as the C&T 69000 video interface and the Intel 82559 chipset for onboard Ethernet, the Aviant Dual BX is the perfect choice for long-life requirements. Integrating these key features onboard eliminates the need for extra add-on cards and frees up valuable slot space for other more specialized feature cards. All of this combined with support for up to 1GB SDRAM and you have a powerful, robust machine for your business critical applications.

AVIANT™

ICS ADVENT™

www.icsadvent.com
800-523-2320

Processor Support
Intel dual Pentium III processors up to 850MHz with 100MHz FSB
PGA socket 370 (370-pin)
Intelligent CPU switching power module

Chipset
Intel 440BX AGP chipset

Cache
256KB L2 cache in Pentium III processor

Memory
Four 168-pin DIMM sockets
3.3V SDRAM up to 1GB (registered or buffered) with ECC support
64-Mbit DRAM technology

Graphics Controller
C&T 69000 with 2MB integrated memory
Supports up to 1280 x 1024 resolution

Onboard Ethernet
Intel 82559 10/100 Fast Ethernet

DiskOnChip® Socket
Suuports M-System Flash disk up to 144MB

Serial Ports
Two standard high speed 16C550 compatible UARTs with 16-byte T/R FIFOs

Parallel Port
One SPP, EPP/ECP bi-directional parallel port

PS/2 Mouse and Keyboard Connectors
Two 6-pin mini-DIN
One 5-pin header for external connections

Universal Serial Bus Interface
2 USB ports for high-speed I/O peripheral devices

Dual EIDE Controller
Integrated enhanced IDE fixed disk controller on PCI local bus
Supports up to four drives: primary master and slave, secondary master and slave
Supports Ultra DMA/33

Floppy Drive Controller
Supports up to two floppy disk drives, 360k to 2.88MB capacity

IR Interface
One 6-pin header for serial Fast/Standard Infrared wireless communication

Auxiliary I/O
One 2-pin system reset switch
One 4-pin external speaker interface
One 5-pin keylock header
One 2-pin HDD active indicator interface
One 4-pin ATX power control interface

System Monitoring
Monitors CPU & chassis fan status, system temperature and power voltage

Wake On LAN & Modem Ring On
Support ATX power control with Modem Ring-On and Wake-On-LAN functions
One 4-pin header to connect to backplane

Power Good
On-board power good generator with reset time of 300 - 500ms

Real-Time Clock/Calendar
DS1687 or compatible to support Y2K
Battery backup for 10 year data retention

AMI BIOS
256kB flash ROM upgradable with support for BIOS upgrade via software

Board Dimension (L x W)
13.36 x 4.78inch (339.5 x 122 mm)

Power Requirement
+5V@10A (typical), +12V@80mA, –12V@30mA

Operating Temperature
32° to 140° F (0 ° to 60 °C)

Operating Systems
Windows 95/98/NT/2000 Solaris, SCO, Linux, and QNX

Ordering Information
SBC-DBX-VE

Intel®
Applied
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Platform
Provider

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