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TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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Full-service, independent repair center
with experienced engineers and technicians on staff.

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along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

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- In stock / Ready-to-ship
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- ITAR-certified secure asset solutions

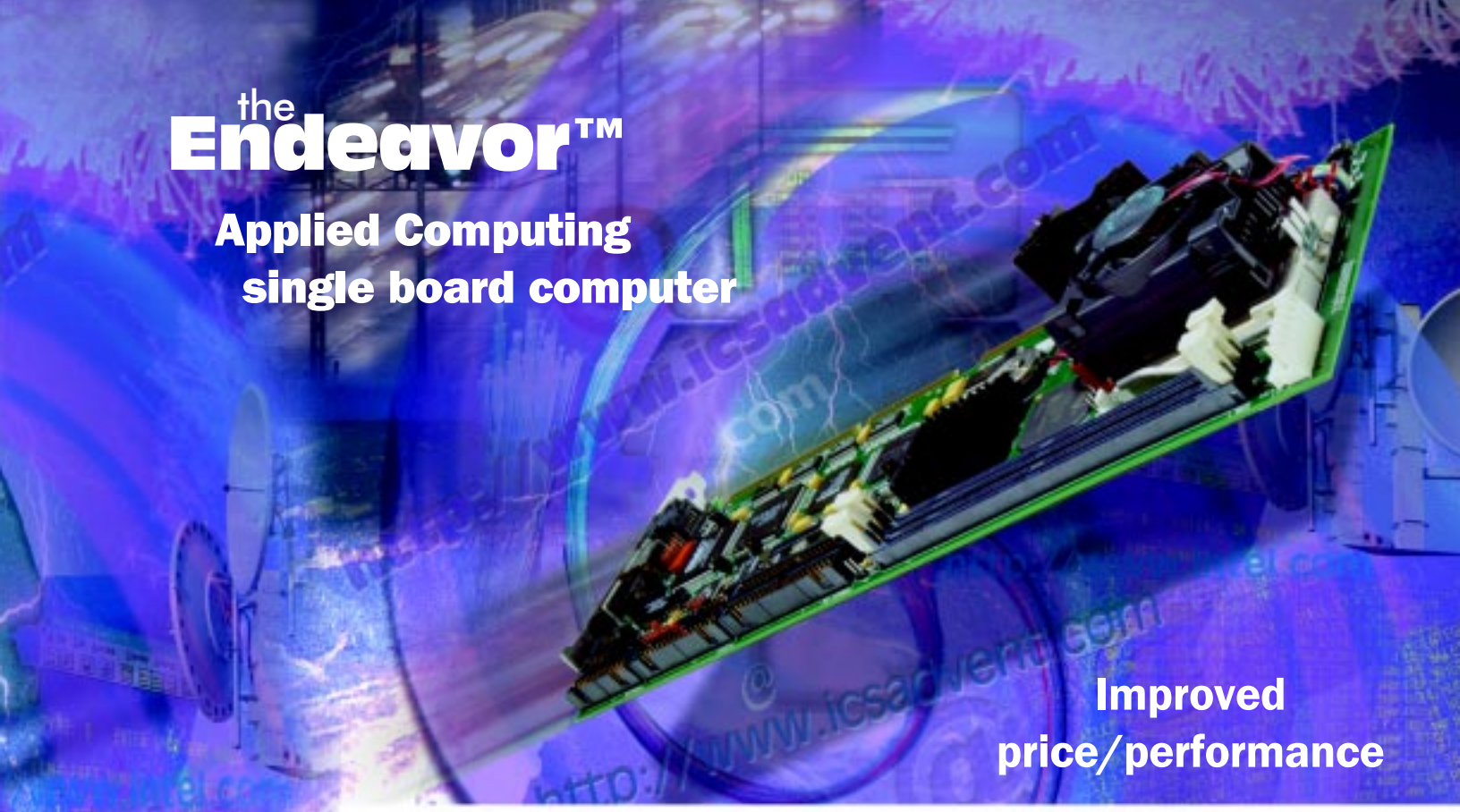
Expert team | Trust guarantee | 100% satisfaction

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Find the *Industrial Computer Source SB686CBX* at our website: *Click HERE*

the Endeavor™

Applied Computing single board computer



Improved price/performance

industry applications:

telecom infrastructures

industrial automation

enhanced services

machine control

broadcasting

convergence

IP telephony

call centers

medical

CPE

IVR

Intel® Applied Computing Platform Provider

The Endeavor Family of single board computers extends the ICS Advent applied computing architecture to new levels of enterprise and technical computing. The Endeavor provides an excellent way to introduce Intel's® Celeron™ technology and processing power to the latest ISA/PCI (PICMG) systems. The Endeavor also provides greater flexibility than other single board computers by supporting older technology backplanes. This allows you to take advantage of higher processing power while maintaining applications and older ISA systems.

The Endeavor Family offers two full-featured models with processing speeds up to 500MHz. The boards have identical features, with the exception of an optional Ultra SCSI-3 controller. The Endeavor is a Y2K ready, highly reliable and affordable solution.

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features

Intel® Celeron™ processors PPGA type with 128 KB L2 cache	Next-generation processors provide superior PC performance for advanced media and communications applications
Intel 440 BX AGP chipset	Proven compatibility and performance
Supports ISA and ISA/PCI backplanes	Industry-leading expandability and reliability
Intel740 AGP Graphics Controller with 8MB SDRAM (not upgradeable) onboard	Industry-leading 2D and 3D graphics performance
Windows®95, 98, NT, Solaris, SCO, Linux, and QNX	Supports prevalent operating system
ECP parallel, 2 serial, 2 USB ports	Support for emerging technologies
10/100 Ethernet onboard	No expansion slot required
Ultra SCSI-3 controller	Optional high performance throughput for high capacity disk drives and other SCSI devices
All ICS Advent products are covered by a 2-year warranty	Comprehensive service and support for top quality products

specifications

Processor Support
Intel Celeron, 400MHz to 500MHz internal frequency, 66MHz front side bus

CPU Socket: PPGA 370A socket

Chipset: Intel 440BX AGP chipset

Cache: 128K cache onboard

Memory
Capacity: 16MB minimum to 256MB (non-ECC) or 512MB (ECC)
Form factor: 168-pin DIMM
- DIMM modules: two maximum
- DIMM socket: gold contacts
- DRAM types: 64/72-bit EDO
- DRAM, 64/72-bit SDRAM (PC100, 100MHz)
- DRAM data integrity types: configurable EC, ECC, and non-ECC
- DRAM type detection: Autodetection algorithm, serial presence detect mechanism

Bus Support
ISA-AT Bus: 8.33 MHz with 64mA IOL with 32mA IOH drive strength
PCI: 33MHz PCI 2.1 compliant
GTL+: 66MHz
AGP: Accelerated Graphics Port with 100MHz local memory interface

Graphics Controller
Intel740 AGP SVGA 3D Accelerated Graphics controller
8MB high-speed, 64bit SDRAM with 100MHz interface
DB15 connector at rear panel
Peak data transfers up to 533MB/s
Integrated 24-bit 220MHz RAMDAC
Display resolutions up to 1600x1200
Graphic functionality disabled and all resources free if option not installed

Ethernet 10/100 Controller
DEC21143 PCI Fast Ethernet Controller
- RJ-45 connector at rear panel
- On-chip PCS and scrambler for 100BASE-TX
- Internal 4kbyte transmit and 4kbyte receive FIFOs
- Supports advanced PCI read multiple, read line, and write and invalidate commands

On-Board Mouse Port
Available at rear panel

Dual Serial Ports
16C550 compatible dual serial port controller
16 byte receive and transmit FIFO buffers
Com ports 1 and 2 are RS-232 compatible
A 10-pin shrouded header onboard for each port connection
ESD protected to ±15kV

Enhanced Parallel Port
Single parallel port controller with bidirectional capability
Enhanced EPP and ECP modes
Connected to 26-pin shrouded header

Keyboard Connector
Keyboard connections to the SBC are made via the onboard keyboard 8-pin header interface connector
Power supplied through +5V self-healing fuse plus a single-row friction lock connector provided onboard

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 LBA, PIO Mode 4, and Ultra DMA/33
Supports LS-120 HD floppy drives

Dual Floppy Drive Controller
Supports 1.44MB, 1.2MB, 720K, and 360K floppy drives

Universal Serial Bus
Universal Host Controller Interface (UHCI) configuration
Dual USB connectors at the chassis rear panel via separate optional cable and bracket assembly

SCSI-3 Controller (optional)
Adaptec AIC-7890A PCI ultra/ultra-wide, single ended/low voltage differential controller
68-pin high-density vertical D-shell
Up to 80MB/s transfer rate in 16-bit (wide) mode
512-byte data FIFO buffer
Backward hardware compatibility with an advanced multimode I/O cell that supports both single-ended and Ultra2 devices
LVD (Low Voltage Differential) allows SCSI cable length increases to 12 meters

Watchdog Timer
Forces reset if decoded I/O space is not written to within specified timeout period
+5V monitor: If VCC falls below 4.5V, a reset occurs
Programmable via software to 100ms, 250ms, or 500ms
Enable and disable by jumper or software
Note: Prefail detect IRQ signal output can be routed to IRQ10 or IRQ11 via jumper. This option triggers ISA bus IRQ if decoded I/O space is not written to within half of specified timeout period.

Real-Time Clock
Motorola MC146818A compatible
256 bytes of battery-backed RAM
Up to seven years of battery-backup protection
Clock source at 14.318MHz accurate to ±1720Hz

CMOS Battery
Onboard lithium 3.0V battery with diode protection circuitry.

AMI Hi Flex BIOS
Plug-n-Play compatible
2MB flash upgradeable with support for BIOS upgrade via software
Y2K ready
The following can be disabled by the BIOS: Graphics, Ethernet, dual serial ports, parallel port, dual EIDE controller, dual floppy drives, SCSI, power management and dual USB

Operating Systems, 32 Bit
Windows 95, Windows 98 Second Edition – full support
Windows NT V4.0 and later, server or workstation – full support
Solaris 2.6 and 7.0
QNX V4.24-video support limited to a maximum of 800 x 600 by operating system
Red Hat Linux V6.0 – video support limited to 80 x 25 text mode by operating system



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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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We're here to make your life easier. How can we help you today?

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