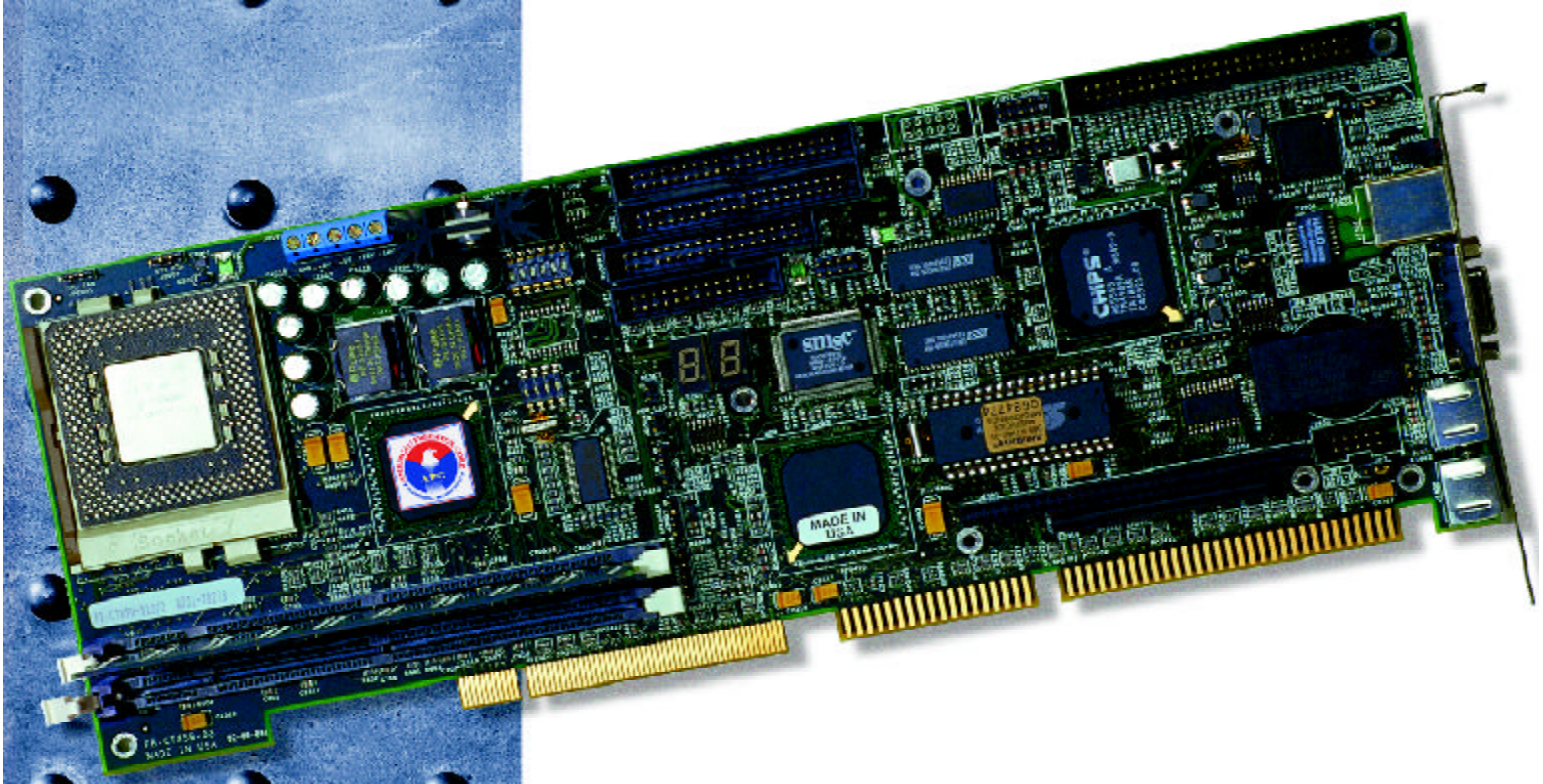
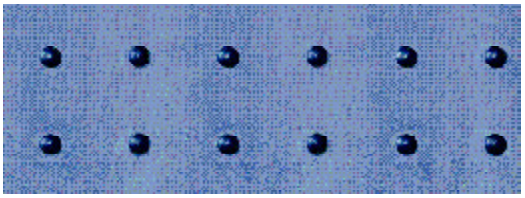
Captor P1™

All-in-One Single Board Computer



- Embedded Controller
- Open Architecture
- Mission Critical
- Industrial Grade
- CPU Expandability
- Consistency



Captor P1™

All-In-One Single Board Computer

The **Captor P1™** is an original APC design that offers the advantage of a high performance CPU card combined with the flexibility of a SBC. It is based on the Intel™ 430TX™ Pentium™ chipset technology.

The Captor P1 features two USB headers, ULTRA-DMA/EIDE capability allowing high-speed data transfer, and complete on-board I/O. It supports two on-board DIMM memory modules up to a total of 256MB on-board. It also features its own power connector to be used as standard SBC.

The Captor P1 also features a Disk-on-Chip™ with a standard 32-pin DIP package and True FFS (True Flash File System) technology. Disk-on-Chip can replace a standard hard disk which are easily damaged under harsh conditions.

The Captor P1 can be configured to accommodate Intel™ Pentium™ microprocessors with MMX™ technology, and AMD™ K5™, K6™, K6E™ up to 400MHz.

It offers four major features for industrial applications: an on-board 2 digit seven-segment LED display for self-diagnostics and custom applications, a Watchdog Timer which is a CPU monitoring device for automatic system resetting in the event of a time-out, an on -board 10 Base-T/100 Mbits ethernet controller with Wake-On-Lan function (Intel™ 82559ER) and an on-Board LCD/CRT video support 2-4MB which is based on Asiliant/ Chips & Technologies (65555) controller.

The Captor P1 is specifically designed for industrial applications that require easy connectivity, longevity, and flexibility.

American Predator products are specifically engineered to operate under diverse temperature ranges, dust, vibration and shock conditions. APC guarantees product longevity of five to eight years of production life cycle for all designs.

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Technical Specifications

Core Logic Chipset	Intel™ 430TX™ chipset
Clock Speed	50, 60 and 66MHz
Microprocessor	Supports full series of Intel™ Pentium™ MMX™ and AMD™ processors up to 400MHz
On board I/O	Two floppies with 2.88MB support Two RS-232 serial ports with 16 bytes FIFO 16550 UARTs One parallel port (bi-directional, ECP/EPP compatible) PS/2 mouse and PS/2 keyboard connectors Two Universal Serial Bus headers (USB) Dual-channel PCI 32-bit EIDE controller PIO mode 4 and Bus Master IDE up to 14 MB/sec. ULTRA-DMA up to 33MB/sec. LS120 drive support
Memory	Two DIMM sockets up to 256MB Supports FPM, EDO and SDRAM
Cache Memory	512KB pipelined Burst SRAM L2
LCD Controller	Asiliant/Chips & Technologies ™ 65555 LCD/CRT controller 2-4MB
Disk-On-Chip (optional)	On-board single-chip flash disk device in a standard 32-pin DIP socket. (Optional Feature) Up to 144MB of capacity with high-speed boot-up capabilities Flash File System (FFS) included. A perfect HDD substitution for the harsh shock/vibration environment
Industrial Devices	On-board (150, 600 and 1200ms) hardware/software watchdog timer VCC monitored above 4.75V On-board 2 digit seven-segment LED display for POST On-board self-diagnostic and/or custom display applications
Ethernet	On-board 10 Base-T/100Mbits with Wake-On-LAN (Intel 82559ER)
On-Board Connectors	One PC104™ interface and power connector
RTC/CMOS RAM	114 bytes of extended CMOS RAM with RTC
BIOS	AMI (FLASH BIOS optional)
System Bus	ISA and PCI connector backplane
Board Dimension	Full size ISA/PCI card (4.5" x 13.3"), eight layers FR4 PCB construction
Environmental Specifications	Temperature 0°C to +55°C - operating -40°C to +65°C - non-operating Humidity 5% to 95% @ 40°C