ADVANTECH PCA-6147 486 All-In-One CPU Card With Flash ROM Disk Owner's Manual

PCA-6147
486 All-In-One CPU Card with Flash/ROM Disk

Contents

PCA-6147 486 All-In-One CPU Card With Flash ROM Disk

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Introduction

The PCA-6147 is an industrial grade 80486SX/DX/DX2/DX4 25/33/40/50/66/75/100 MHz all-in-one CPU card. It provides speed and performance in one compact package. An on-board DC-DC converter lets it directly support the DX4-100.
You can configure the PCA-6147 for different CPUs simply by changing jumpers to adjust the clock speed.
The PCA-6147 offers memory caching, disk-drive controllers, a watchdog timer and serial/parallel ports all in one packages. Its onboard POST diagnostic function makes it very easy to debug or setup.
The PCA-6147's industrial grade construction allows it to withstand continuous operation in hard industrial environments at temperatures up to 140°F (60°C).
You can equip the PCA-6147 with any 486 CPU. In addition to the 486's 8 KB of on-chip cache memory the PCA-6147 includes an extra 256 KB of second level cache memory on-board. The card also has two serial ports, a parallel port, an IDE hard disk drive interface (which controls up to two hard disk drives) and a floppy disk controller (which supports up to two floppy disk drives).
An on-board watchdog timer can reset the CPU or generate an interrupt if a program cannot be executed normally due to EMI or a program bug. This allows secure operation in stand-alone or unattended environments.
Advantech designed the PCA-6147 with single-board-computer operations in mind. It features a three voltage power supply (+5 V, +12 V, -12 V), on-board support for a Flash/ROM disk (emulating a 360 KB/1.44 MB disk drive) and a connector for PC/104 modules.
The PCA-6147 provides four 72-pin SIMM (Single In-Line Memory Module) sockets for its on-board system DRAM. These sockets give you the flexibility to configure your system from 1 MB to 64 MB of DRAM using the most economical combination of SIMMs.
The PCA-6147's cache memory (8 KB on-chip and 256 KB second level) increases performance by breaking through the memory access bottleneck, allowing it to run at a Landmark (V1.14) speed greater than 200 MHz (80486DX-50 CPU).

Features

- 80486SX/DX/DX2/DX4 – 25/33/40/50/66/75/100 processor, AMI, BIOS
- Full-size ISA bus CPU card, fully 486SX/DX/DX2/DX4 compatible
- 8 KB on-chip and 256 KB 2nd-level cache memory
- On-board POST (Power On Self Test) diagnostic LEDs

- CPU voltage modules auto switch from 5 V to 3.3 V for use with the DX4 CPU
- Built-in IDE (AT bus) hard disk drive interface, LBA mode supported
- Two serial ports, one RS-232, one RS-232/422/485
- One enhanced bidirectional parallel port. Supports EPP/ECP
- 12-level watchdog timer (0.5 ~ 1008 sec.), jumperless setting
- On-board keyboard connector
- CMOS data backed up in EEPROM

Specifications

- Under Construction

Ordering Information

- **PCA-6147P :** 486 All-In-One CPU Card with Flash/ROM Disk

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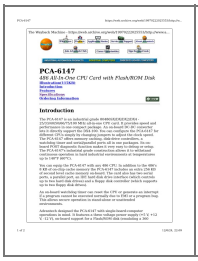	ADVANTECH PCA-6147 486 All-In-One CPU Card With Flash ROM Disk [pdf] Owner's Manual PCA-6147, PCA-6147 486 All-In-One CPU Card With Flash ROM Disk, PCA-6147, 486 All-In-One CPU Card With Flash ROM Disk, CPU Card With Flash ROM Disk, Flash ROM Disk, ROM Disk, Disk

References

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