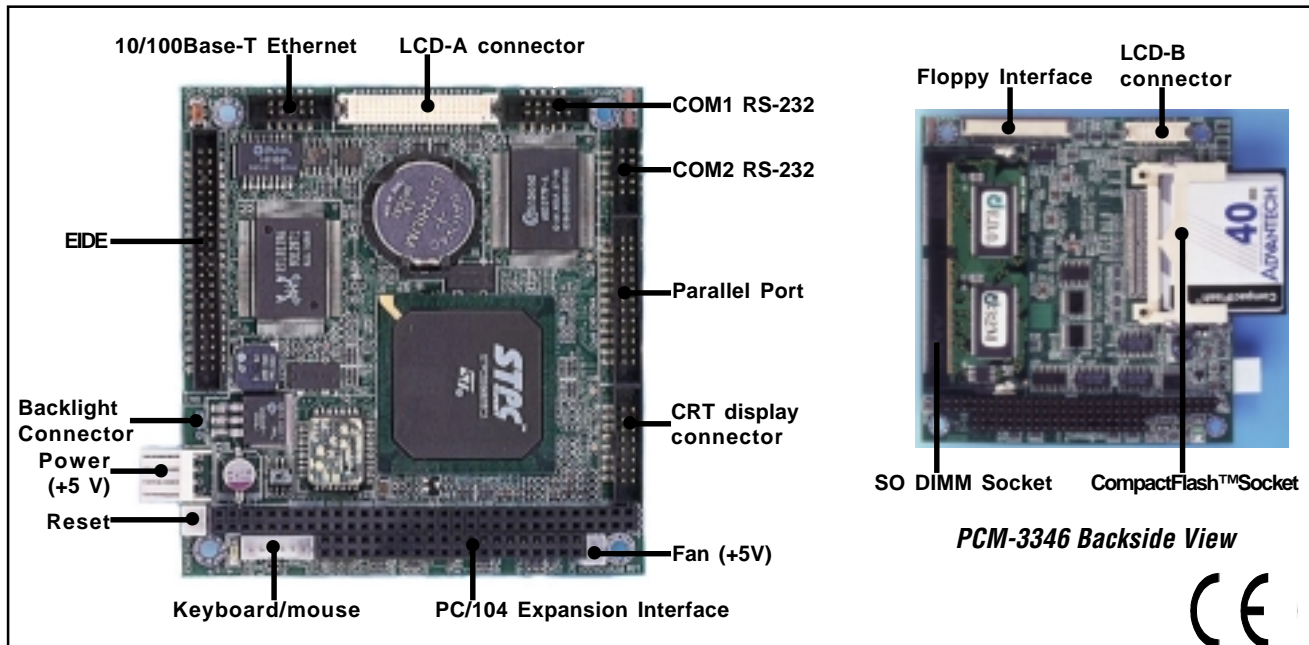


PCM-3346

486 DX66 CPU Module with VGA/LCD, Ethernet and SSD



Introduction

Advantech's new PC/104 module, the PCM-3346, has all the functions and power of a standard full-size PC applied into the form factor of an industry standard PC/104 (90 x 96 mm). This makes it one of the smallest, most complete SBCs on the market.

Even though this module is so small, it still contains everything that a full-fledged computer requires. Advantech took its industry-proven PCM-3345 486-based PC/104 CPU module and added an on-board LCD controller (C&T69000) as well as 10/100Base-T Ethernet. The on-board LCD controller supports 36-bit video and has 2 MB display memory on chip. These features give our customers a small, complete and cost-effective board solution for applications that require network and LCD panel support in a limited space environment.

This module supports Watchdog timer protection. On board, there are two serial and one parallel ports, one FDD connector and one IDE connector, allowing for as much peripheral expansion as most much larger size SBCs. This board also supports one CompactFlash™ card for use as an emulated HDD. Advantech provides several size options of Compact Flash cards (up to 40 MB). Its on-board CPU is a 486 DX 66 MHz equivalent from ST Thompson

(STPC). It is unique for a 486-based CPU in that its front side bus runs at 66 MHz, instead of only 33 MHz like Intel® 486 CPUs. Also, since it's integrated on board, there is no need to configure CPU frequency or voltage. It supports 16, 32 and 64 MB EDO SO DIMM (optional).

Specifications

- **CPU:** ST Thomson DX-66 STPC Client
- **BIOS:** Award 256 KB Flash BIOS, supports Plug & Play
- **Fanless operation**
- **DRAM:** One 144 pin 64 bit SO DIMM socket supports 16 /32/64 MB 3.3 V FPM / EDO SO DIMM
- **SSD:** Supports one CompactFlash™ card
- **Network:** RTL 8139A/8139B chipset
- **Watchdog:** 1.6 sec interval watchdog timer (optional flexible interval available)
- **IDE interface:** One enhanced IDE
- **PC/104 expansion:** 104-pin 16-bit PC/104 module connectors
- **Operating voltage:** +5 V only
- **Power consumption:** +5 @ 1.6 A (typical) @ 486 66 MHz CPU +32 MB
- **Dimensions:** 96 mm x 90 mm

- **Graphics:** C&T69000 chipset VGA / LCD. STPC Client built-in VGA
- **Super I/O:**
- One PC-AT keyboard/mouse connector
- One FDD interface on a 26-pin flat cable
- COM1 & COM2 with 10-pin header connectors
- COM1: RS-232 - COM2: RS-232
- One parallel port with 26-pin header connector / can emulate FDD interface (optional)

Mechanical and Environmental

- Operating temperature: 0 ~ 70° C
- Weight: 0.11 kg

Ordering Information

- PCM-3346F:** 486 DX66 CPU Module with VGA/LCD, Ethernet and SSD
- DIMM 144- 1600-EO 16 MB EDO RAM**
- DIMM 144- 3200-EO 32 MB EDO RAM**

Note: All specifications are subject to change without notice

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