
IDE to CF Adapter

User's Manual

Introduction

This IDE to CF adapter is aimed at education sectors, IT development and embedded technology enthusiasts to enable the use of a compact flash card as an IDE hard disk. Compact Flash memory cards offer the benefit of low power consumption, low operating temperature, no acoustic noise, shock resistance, and fast read access time.

This adapter can support up to two Compact Flash memory cards (CF Card) to an IDE host interface and also supports the latest Ultra DMA (UDMA) mode CF Cards. This adapter is transparent to the operating system and does not require any drivers. With this adapter, the host PC will identify the CF Card as a standard IDE hard disk (i.e. with cylinders, heads, and sectors). As such, you can install any operating system and the CF Card will be bootable. Due to this, this adapter does NOT support hot plug function.

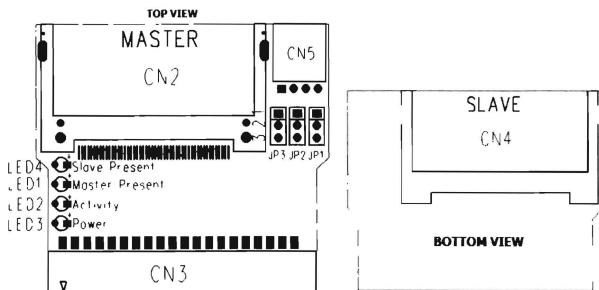
Applications

- Linux-based set-top boxes, routers, firewalls
- Diskless network clients
- Industrial computers
- Any device requiring rugged solid-state storage

Specification

- Fully compatible with Compact Flash Type I, Type II, and Micro-drive
- Supports UDMA mode CF Card
- Dual CF Card sockets (Optional)
- LED indicators: Power, Master/Slave Card Detect, Read/Write Activity
- Direct insertion into any 40-way (2.54mm) motherboard IDE connector
- Master or Slave mode selection by jumper setting (Single CF Card version only)
- Supports +3.3V and +5.0V CF Card by jumper setting
- Power input option: +5V supplied from the floppy disk drive power connector, or from Pin 20 of 40-way IDE connector when used on VIA EPIA series embedded motherboard
- Board size: 61mm x 55mm x 9mm (W, L, T)
- This adapter does NOT support hot plug function

Layout



CN2 - Compact Flash socket (Master/Single mode)

CN3 - 40-way (2 54 mm pitch) Female IDE connector

CN4 - Compact Flash socket (Slave mode)

CN5 - Floppy disk drive power connector

LED1 - Compact Flash memory (Master) card-detect indicator

LED2 - Read/Write activity indicator

LED3 - Power-on indicator

LED4 - Compact Flash memory (Slave) card-detect indicator

Jumper Settings (*) = Default

JP1 - Compact flash power source selection*

1-2 (*)	From external (CN5)
2-3	From the 20th pin of 40-way standard IDE connector (CN3), for VIA EPIA series motherboard

JP2 - Compact Flash voltage selection*

1-2 (*)	+5.0V
2-3	+3.3V

JP3 - Compact Flash mode selection (Single CF Card version only)

1-2 (*)	Master/Single
2-3	Slave