SD-IDE2UCF1-A/B/C/D/E/F/G/H

User's Manual

Introduction

The IDE2UCF1 is an adapter for connecting one or two Compact Flash memory card (CF Card) to an IDE host interface, aiming at educational sectors, IT development, and the embedded technology enthusiast to enable the use of a compact flash card as an IDE hard drive.

Compact Flash disks offer the benefit of low power consumption, low operating temperature, no acoustic noise, shock resistance, and fast read access time.

IDE2UCF1 adapter supports Ultra DMA mode CF Card. It is transparent to the operating system and does not require any drivers. With this adapter, the host PC will identify the inserted CF Card as a standard IDE hard disk (i.e. with cylinders, heads and sectors). As such, you can install any operating systems and the CF Card will be bootable. Due to this, the CF Card is not hot swappable.

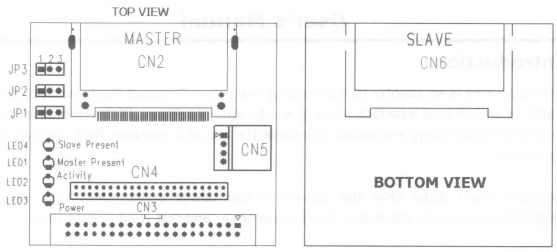
Applications

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

Specification

- Fully compatible with Compact Flash Type I, Type II, and Micro-drive
- Supports Ultra DMA mode CF Card
- Dual CF Card sockets (SD-**IDE2UCF1-E/F/G/H** only)
- LED indicators: Power, Card Detect, Read/Write Activity
- 40-way (2.54mm) standard IDE connector
- 44-way (2.0mm) Small Form Factor (SFF) IDE connector (**SD-IDE2UCF1-C/D/G/H** only)
- Master or Slave mode selection by jumper setting (**SD-IDE2UCF1-A/B/C/D** 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 44-way SFF IDE connector
- Rear bracket (**SD-IDE2UCF1-B/D/F/H** only)
- Board size: 70mm x 63 mm x 13mm (W,L,T)
- This adapter does NOT support hot insertion of CF card

Layout



CN2 – Compact Flash socket (Master/Single mode)
CN3 – 40-way (2.54 mm pitch) IDE connector
CN4 – 44-way (2.0 mm pitch) SFF IDE connector
CN5 – Floppy disk drive power connector
CN6 – Compact Flash socket (Slave mode)
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) or 44-way SFF IDE connector (CN4)
2-3	Reserved

JP2 – Compact Flash voltage selection:

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

JP3 – Compact Flash mode selection:

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

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