IDE to CF Adapter

User's Manual

Introduction

This IDE to CF adapter is aim at education sectors, IT development and embedded technology enthusiast 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 supports 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.

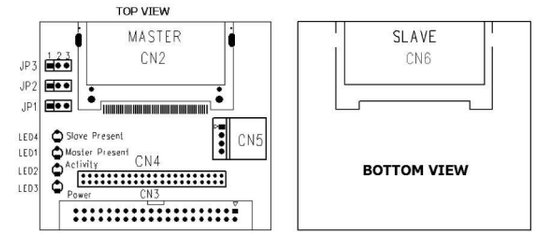
Applications

- 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 Mirco-drive
- Supports UDMA mode CF Card
- Dual CF Card sockets (Optional)
- LED indicators: Power, Card Detect, Read/Write Activity
- 40-way (2.54mm) standard IDE connector
- 44-way (2.0 mm) Small Form Factor (SFF) IDE connector (Optional)
- 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 44-way SFF IDE connector
- Rear bracket (Optional)
- Board size: 70mm x 63mm x 13mm (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) 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: (Single CF Card version only)

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

Printed in China

P/N: SE-MANL-IDE2UCF1-EN-2

MODEL : IDE2UCF1

FCC Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.