

**ET-USB FLASH DRIVE (P-ET-A-00344)**

**ET-USB FLASH DRIVE**

CHIP FTDI # VNCIL-IA USB HOST CONTROLLER



ET-USB FLASH DRIVE is device that is designed to interface with FLASH DRIVE USB; so, user can use command to read file, write file, erase file, create file and etc through PORT RS232. Additionally, it can be interfaced with computer PC or Board Microcontrollers to adapt it into many applications such as storing data of GPS, Weather Detection, DATA LOGGER and etc.

- Use IC of FTDI No.VNC1L-1A USB HOST CONTROLLER
- Can communicate with FAT12, FAT16, or FAT32 FLASH DRIVE USB
- Support 8 Characters Filename and 3 Characters File Surname
- Control reading and writing FLASH DRIVE by sending COMMAND to control through PORT RS232
- Can create, read, write, erase file or DIRECTORY and can rename filename or DIRECTORY name
- Select 2 types of sending command; ASCII or HEX
- BAUD RATE uses DEFAULT 9600, N, 8, 1 and can adjust values in the range of 300 -115200
- Select signal TX, RX, GND only, or FLOW CONTROL by signal RTS, CTS
- PORT RS232 DB 9 PIN FEMALE
- USB TYPE A to interface with FLASH DRIVE USB
- POWER SUPPLY DC 9 - 12 VDC
- BLACK BOX SIZE 7.5 x 2.5 x 5 cm.
- **ET-USB FLASH DRIVE** consists of ET-USB FLASH DRIVE, CD-ROM User's Manual, DC POWER SUPPLY 10 VDC/850mA, DB 9 PIN MALE, CONVER DB 9 PIN



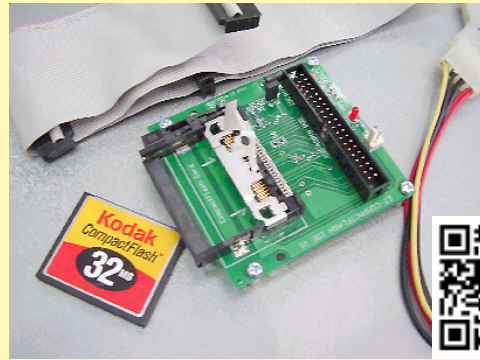
**ET-CFIDE V1 (P-ET-A-00135)**

ET-CompactFlash IDE V1.0 is designe d to connect CompactFlash Card with Computer PC through IDE Interface. CompactFlash Card is in True IDE Mode, so it's only hard disk in computer PC. Users can replace hard disk or CD-ROM in other project work. Connecting ET-CompactFlash IDE V1.0 Board with Computer PC uses 40 CH Pair Cable of hard disk.

Users can set ET-CompactFlash IDE V1.0 Board as Master or Slave because IDE disk Drive Connector Blank on 1 CH Main Board be able to connect 2 ET-CompactFlash IDE V1.0 Boards but users need to set one is Master and one is Slave.

**USING ET-CFIDE V1.0**

- PUT CompactFlash CARD INTO ET-CompactFlash IDE V1.0 BOARD
- CONNECT 40 PIN PAIR CABLE FROM ET-CompactFlash IDE V1.0 BOARD WITH IDE DISK DRIVE CONNECTOR ON MAIN BOARD OF COMPUTER
- USE +5V AND GND POWER SUPPLY ON COMPUTER TO BOARD THROUGH CONNECTOR CABLE
- START COMPUTER AND WIIL SEE ET-CompactFlash IDE V1.0 ON WINDOWS AS NORMAL HARD DISK



- ET-CFIDE V1.0 SYSTEM IS DESIGNED TO USE WITH CompactFlash CARD AND USES MAXIMUM 100mA +5V/25C POWER SUPPLY.

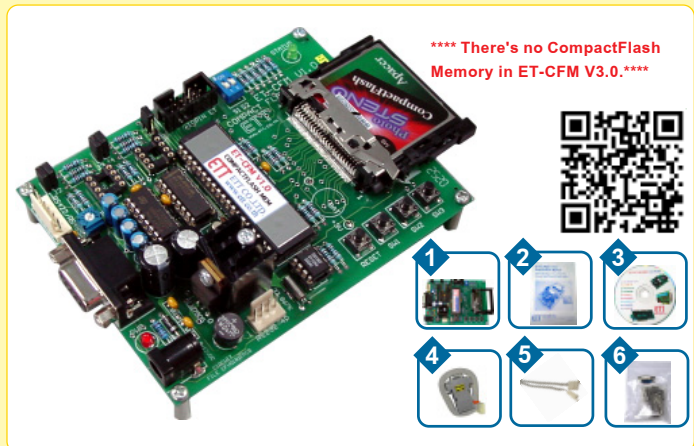
**ET-CompactFlash IDE INCLUDES;**

- ET-CompactFlash WITH CONNECTOR CompactFlash
- 1 CH 40 PIN PAIR CABLE CONNECT WITH COMPUTER PC
- 1 CH POWER SUPPLY CABLE CONNECT WITH COMPUTER PC PORT



**ET-CFM V3 (P-ET-A-00110)**

ET-CFM V3.0 is designed to connect with Microcontroller Board for writing and reading data with CompactFlash MEMORY in standard file. Be able to run on DOS or WINDOWS and adapt to keep information in other project works. It sends data into ET-CFM Board to keep in Memory through PORT RS232. CompactFlash is the cheapest memory per memory size, so it is used in GPS System, Data Loggers, Thermometer.



\*\*\*\* There's no CompactFlash Memory in ET-CFM V3.0.\*\*\*\*

- BE ABLE TO USE CompactFlash IN MANY SIZE SUCH AS 32MB, 64MB,128MB, 256MB, OR 1 GB
- MAXIMUM 4 GB CompactFlash MEMORY
- SAVE DATA AS STANDARD SYSTEM FILE FAT 16 AND BE ABLE TO USE WITH OS SYSTEM OF WINDOWS
- CONNECT DATA TO CompactFlash THROUGH PORT RS232, RS422 (OPTION) AND SET THE CONNECTION VALUE AS 9600,19200,38400, AND 57600 BIT PER SECOND
- BASIC INSTRUCTIONS CONNECTING WITH CompactFlash SUCH AS READ, WRITE, RESET, TIME RTC, DISK EMPTY
- RTC WITH BATTERY BACKUP
- DB 9 PIN AND 4 PIN ETT PORT RS232, 6 PIN ETT RS422
- POWER SUPPLY DC 9-12 VDC (DC ADAPTE 10VDC FROM ETT PRICE)
- BOARD SIZE 11.7 x 9 CM.
- **ET-CFM V3.0 INCLUDES;** .

1. ET-CFM V1.0 BOARD
2. USER MANUAL
3. CD-ROM
4. ET-RS232 DB 9 PIN CABLE
5. 4 PIN RS232 CABLE HEADER
6. DB 9 PIN MALE, COVER 9 PIN