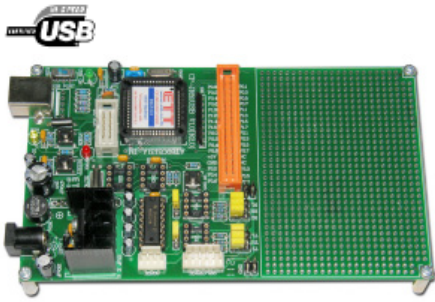


**CP-JR51USB V1**

(P-CP-A-00075)

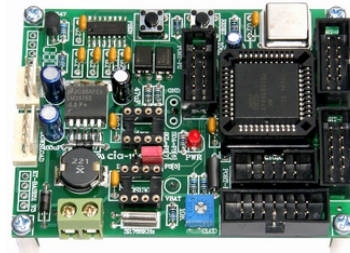


Use Control Board through V1.1 and V2.0 Port USB and use CPU MCS51 NO. AT89C5131 from ATMEL because user can select USB as 6 Clock or 12 Clock directly. It's suitable for development program through connecting PORT USB directly.

- CPU ON BOARD AT89C5131 PLCC TYPE 52 PIN
  - 6 CLOCK OR 12 CLOCK RUN X'TAL 24 MHZ
  - MEMORY AS FLASH 32 KBYTE, RAM 256 BYTE, FULL DUPLEX UART, ERAM 1024 BYTE, DUAL DTA POINTE, WATCH DOG,USB, PCA
  - DOWNLOAD PROGRAM INTO CPU THROUGH USB PORT DIRECTLY
  - 5 PORT CONNECT WITH P0, P1, P2, P3, P4 THROUGH 34 PIN ET-BUS I/O
  - I2C EEPROM NO.24XX (OPTION)
  - I2C RTC NO.DS1307 (OPTION)
  - I2C BUS ET 10 PIN
  - RS232 MAX232 ON BOARD, RS422/485 (75176 OR MAX3088 OPTION)
  - POWER SUPPLY 7805 ON BOARD • POWER SUPPLY 7-12VDC
  - PCB SIZE 15.3 x 9 CM
  - USE FLIP PROGRAM FROM ATMEL THROUGH USB TO DOWNLOAD PROGRAM INTO CPU TO RUN ON OS WINDOWS 98/ME/2000/NT/XP
  - CP-JR51USB INCLUDES
1. CP-JR51USB BOARD
  2. CABLE USB A-TO-B TYPE
  3. User's manual Guide
  4. CD-ROM

**ET-BASE 51 V3.0**

(P-ET-A-00395)

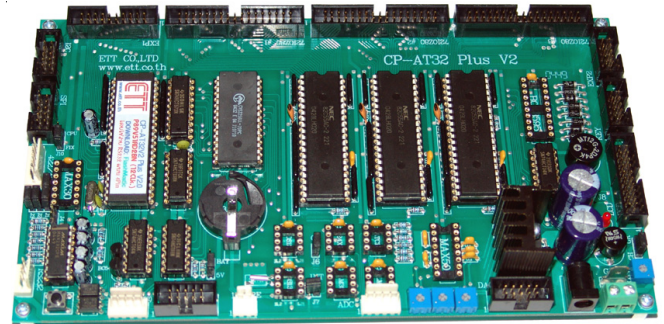


ET-BASE 51 V3.0 is the new board version that uses MCU in the family of MCS51 No.AT89C51ED2 PLCC-44 PIN from ATMEL on board. It is the stand alone device that can operate independently or connect with ET-BASIC I/O V1; moreover, it is able to add devices more than V2.

- MCU No.AT89C51ED2, PLCC-44 PIN, 64 KBYTES FLASH Memory, 1792 BYTES RAM, 2 KBYTES EEPROM and can be run 6 or 12 CLOCK at 1 MACHINE CYCLE.
  - 29.4912 MHz OSCILLATOR MODULE can be run in X2 MODE, so this board can run at the maximum high speed of 58.9824 MHz.
  - Directly DOWNLOAD data program into internal memory through PORT RS232 without additionally purchasing any more COPY Programmer.
  - 4 PORT I/O PIN HEADER 2x5 standard of ETT
  - RS232 PORT 4 PIN ETT
  - RTC No.DS1307 (OPTION)
  - EEPROM 24XX (OPTION)
  - 14 PIN HEADER LCD for interfacing with CHARACTER LCD
  - POWER SUPPLY AC/DC INPUT 7-10V, use SWITCHING REGULATE No.LM2575 to reduce the heat from IC REGULATE
  - PCB SIZE: 8x6 cm.
  - ET-BASE 51 V3.0 consists of...
1. Board ET-BASE 51 V3.0
  2. CD-ROM User's Manual Program
  3. Cable ET-RS232 DB 9 PIN

**CP-AT32 PLUS V2**

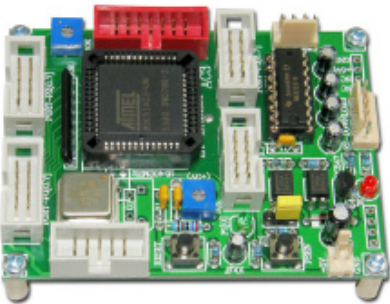
(P-CP-A-00033)



- CPU P89V51RD2 64 KBYTE PROGRAM, RUN 18.432 MHZ
  - 72 BIT I/O PORT 8255 ON BOARD USING 34 PIN ET-BUS
  - 32 KBYTE RAM ON BOARD 62256 (BACKUP IC OPTION DS1210)
  - COMPATIBLE MCS51 20 PIN PORT (CAN USE WITH 20 PIN MCS51 (AT89C2051, 1051, 4051))
  - 2-CH.12 BIT A-TO-D (OPTION LTC1298) SAMPLING RATE 11.1 KHZ
  - 4-CH.8 BIT D-TO-A (OPTION IC MAX 500, 2-CH.IC LM358), OUTPUT 2-10 V
  - 8 BIT OUTPUT HIGH CURRENT OPEN COLLECTOR (OPTION IC NC6B595), 8 BIT OUTPUT WITH DIODE IN CASE OF RELAY
  - RTC DS1307 (OPTION IC), EEPROM 2K-32K (24LCXX OPTION)
  - RS232 ON BOARD, RS422/485 (OPTION IC MAX3088 256-CH. TRANSCEIVER ON BUS)
  - KEY 4 x 4 PORT, 1 MINI SPEAKER
  - ET-SDP8 BUS, ET-12C BUS, ET-SPI BUS, ET 1-WIRE BUS
  - GRAPHICS & CHARACTER TYPE 20 PIN BUS
  - ON BOARD POWER SUPPLY 7805
  - POWER SUPPLY 7-12VDC
  - PCB SIZE 21 x 12 CM.
  - CP-AT32 PLUS V2 INCLUDES ;
1. CP-AT32 PLUS V2 BOARD
  2. CABLE DOWNLOAD ET-RS232 DB9
  3. CD-ROM

**ET-BASE51 AC3**

(P-ET-A-00288)



"ET-BASE 51 AC3" which is a Board Microcontroller is designed to be a small size. It can be used for general usage or using with "ET-BASIC I/O V1". This Board uses MCU MCS51 family from ATMEL No.AT89C51AC3 as DIP TYPE 52 PIN PLCC and can be run maximum 60MHz at 12 CLOCK or 30MHz at 6 CLOCK.

- Using AT89C51A3 with 64 KBYTE FLASH MEMORY, 2304 BYTE RAM, 2 KBYTE EEPROM
  - CIRCUIT OSC CLOCK 29.4912 MHz ON BOARD and if running as 6 CLOCK, it will be 58.9824 MHz.
  - Can be DOWNLOAD program directly from COMPUTER PC into internal FLASH memory through PORT RS232
  - 5 PORT I/O 10PIN ET (32+4 DIGITAL I/O)
  - 4 PIN RS232 PORT • A TO D 10 BIT 8 CHANNEL
  - 14 PIN LCD PORT as CHARACTER TYPE
  - POWER SUPPLY 5VDC (can be used with POWER SUPPLY version "ET-SWITCHING ADAPTER 5V 2A TYPE H")
  - PCB size 6.2 x 8.1 cm.
  - ET-BASE 51 AC3 consists of
1. BOARD ET-BASE51 AC3
  2. CD-ROM
  3. CABLE DOWNLOAD ET-DOWNLOAD RD2
  4. CABLE DOWNLOAD ET-RS232 DB 9 PIN

