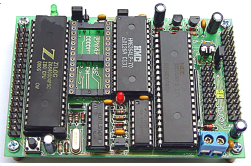


**CP-Z80 V1 (P-CP-A-00074)**

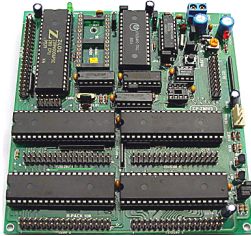


- CPU Z80B CMOS/RUN 4 MHz
- 8 K RAM ON BOARD
- 8K / 32 K EPROM MONITOR
- 40 PIN Z80 BUS
- 24 BIT I/O 82C55 PORT 34 PIN
- 20 PIN LCD
- POWER DC +5 VDC
- PCB SIZE 9 x 6 CM.
- DEVELOP PROGRAM WITH ET-EPROM EMULATOR 8/32 OR ET-BOARD V3.5/V4.0/V5.0/V6.0

• CP-Z80 V1.0 INCLUDES; BOARD AND UAER MANUAL

**CP-Z80 V3 (P-CP-A-00003)**

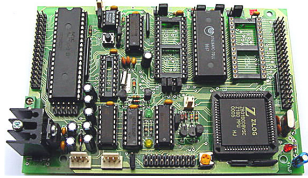
**CP-Z80 V3 PLUS (P-CP-A-00004)**



- CPU Z80B CMOS/RUN 4 MHz
- 8 K / 32 K RAM ON BOARD 8K (6264)
- 8K / 32 K EPROM MONITOR (2764/27256)
- 96 BIT I/O 8255 PORT 34 PIN x 4
- DS1232 (POWER ON RESET/WATCHDOG) EEPROM
- 20 PIN LCD PORT (CLCD, GLCD MODULE)
- RTC 6264 (CP-Z80V3 PLUS), 40 PIN Z80
- PCB SIZE 12 x 13.5 CM., POWER DC +5VDC
- DEVELOP PROGRAM WITH ET-EPROM EMULATOR 8/32 OR ET-BOARD V3.5/V4.0/V5.0/V6.0
- CP-Z80 V3.0 AND CP-Z80 V3 PLUS INCLUDE; BOARD AND USER MANUAL

**CP-jr180 (P-CP-A-00006)**

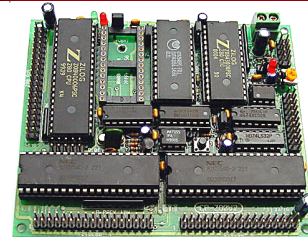
**CP-jr180 PLUS (P-CP-A-00007)**



- CPU Z80180 CMOS/RUN 6.144 MHz
- 32K/64K EPROM MONITOR (27256/27512)
- 24 BIT I/O 8255 PORT 34 PIN ET x 1
- 20 PIN LCD/POWER ON RESET/WATCH DOG
- RS232 PORT 2-CH. (Z80180), 40 PIN Z80 BUS
- PCB SIZE 9 x 12 CM.
- POWER 7805 POWER DC 7-12VDC
- WRITING AND DEVELOP PROGRAM WITH ET-DEBUGGER JR 180 OR ET-EPROM EMULATOR

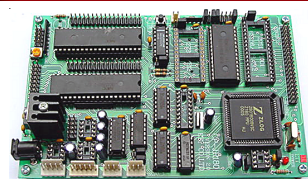
• CP-JR180, CP-JR180 PLUS INCLUDE; BOARD AND USER MANUAL

**CP-Z80 V2 (P-CP-A-00002)**



- CPU Z80B CMOS/RUN 4 MHz
- 8 K / 32 K RAM ON BOARD 8K (6264)
- 8K / 32 K EPROM MONITOR (2764/27256)
- 48 BIT I/O 8255 PORT 34 PIN x 4
- Z80ACTC/WATCH DOG/POWER ON RESET
- 20 PIN LCD PORT
- PCB SIZE 11 x 9.6 CM.
- 40 PIN Z80 BUS, POWER DC +5 VDC
- DEVELOP PROGRAM WITH ET-EPROM EMULATOR 8/32 OR ET-BOARD V3.5/V4.0/V5.0/V6.0
- CP-Z80 V2.0 INCLUDES; BOARD AND USER MANUAL

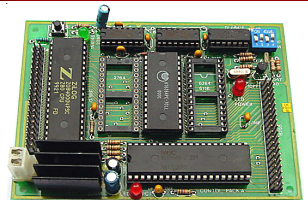
**CP-jr180 V2 (P-CP-A-00008)**



- CPU Z80180-8 CMOS RUN 6.144 MHz (X'TAL 12.288 MHz)
- 32 K RAM ON BOARD(62256)
- 32 / 64 K ROM (27256 /27512)
- 512 K ROM/RAM (27515/271001/62256/62128/62512)
- 48 BIT I/O PORT 8255 34 PIN ET-BUS x 2

- 20 PIN LCD ET-BUS (CLCD, GLCD)
- 10 PIN KEYBOARD (MATRIX 4 x 4, 10 PIN SDP8)
- RS232 PORT 2-CHANNEL
- RTC 6242 (OPTION)
- WATCH DOG & POWER ON RESET & BACK UP (MAX 691)
- A-TO-D 12 BIT 2-CHANNEL LTC1298 (OPTION)
- 7805 POWER SUPPLY ONBOARD
- WRITING AND DEVELOP PROGRAM WITH ET-DEBUGGER JR 180 OR ET-EPROM EMULATOR
- CP-JR180 V2.0 INCLUDES; BOARD,CD-ROM, USER MANUAL

**CP-Z80CPA (P-CP-A-00005)**



- CPU Z80A/RUN 3.579 MHz
- 8 K RAM ON BOARD (6264)
- 8 K EPROM MONITOR (2764, 2732)
- 8 K RAM EXPANSION (6116, 6264)
- 24 BIT I/O 8255 PORT 40 PIN
- 40 PIN Z80 BUS
- 7805 ON BOARD POWER 7-12VDC
- PCB SIZE 12 X 8.5 CM.
- DEVELOP PROGRAM WITH ET-EPROM EMULATOR OR ET-BOARD V3.5/V4.0/V5.0/V6.0

• Z80-CPA INCLUDES; BOARD AND USER MANUAL

**ET-TOUCH PAD 4X4 (P-ET-A-00408)**

**ET-TOUCH PAD 4 X 4**



MCU # STM8S105C4T6

It is 4X4 KEY BOARD Touch Screen that uses MCU No.STM8S105C4T6 to control the operation. It is able to connect with MCU that is 5V or 3.3V and it sends data of pressing key in the format of BCD and RS232(TTL).

• It is TOUCH SENSING KEY (Touch Screen) in the format of 16 Keys CAPACITIVE SENSING (4x4).

• It uses Power Supply 3.3VDC or 5VDC for board, so it is compatible with MCU that is 3.3V or 5V. It uses 2mA current for normal usage and 8mA current while pressing keys.

• It uses sound and 16 LED on that key to display the operating status while pressing key.

• There are 2 types of sending KEY CODE of the pressed KEY;

1. **BINARY CODE (BCD 8421)** through CONNECTOR 8PIN; there are 4 cables of Pin BCD, Pin ST#, Pin P#/R, Pin VCC, and Pin GND.

2. **ASCII CODE** through CONNECTOR 4PIN RS232 TTL (UART), BAUD RATE 9600

• 1 Special KEY that can be used as normal KEY or KEY FUN to press with other KEY, so it can be operated more than 16 KEY

• 2mm. thick transparent plastic plate to support KEY TOUCH

• Board Size 76.2 x 88.9 mm.

• ET-TOUCH PAD 4X4 consists of ...

1. Board ET-TOUCH PAD

2. 2mm. thick transparent plastic plate to support KEY



**ET-KEY BOARD 4X4 (P-ET-A-00090)**



It is ready-made Keyboard for adaptation with Micro board system or as 4x4 KeyBoard SW. There's 2 stickers types to use; Number 0-9 (A-F), UP, DOWN, HELP, ENTER, FUN and Designed by USER.

The method of second type is typing letters on papers and attach on Key and then attach with clear sticker on board again.

• BLACK PLASTIC KEYBOARD WITH WHITE AND ORANGE KEY PAD

• RUBBER KEY PAD AND PCB GOLD-PLATED FOR SW

• 16 KEY WITH 4 x 4 MATRIX KEY

• 8 PIN PORT

• KEY BOARD SIZE 10.5 x 11 x 1.1 CM.

**12 KEY TELEPHONE KEYBOARD (A-SW-K-00017)**



Key Telephones with 4 x 3 Matrix Key.