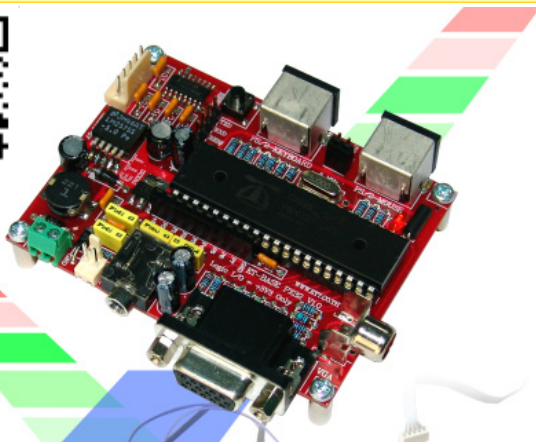# ET-BASE PX32 V1.0 (P-ET-A-00363)
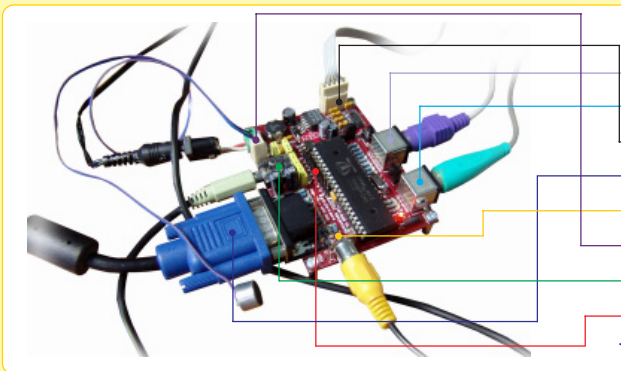
Specifications of MCU P8X32A

- 32 BIT MCU, 8 COG MULTIPROCESSOR, RUN 80MHz
- DIP TYPE 40 PIN, 32 PIN I/O PORT
- RUN VOLTAGE 2.7 - 3.6 VDC, I/O can be SOURCE/SINK current 40mA at 3.3 VDC
- Store 30KBYTE CODE Internal RAM, 20 MIPS/COG to run MCU
- If using it as INPUT PORT, it can receive voltage not higher than 2.7-3.6 V

(For Board ET-BASE PX32 V1.0, it can receives voltage not higher than 3.3V).

ET-BASE PX32 V1.0 is the one board that can be interfaced with many components such as PORT to interface with VGA, PORT to interface with TV (AV), PORT KEY BOARD PC/PS2, PORT MOUSE PC/PS2, PORT RS232, PORT MIC, and PORT HEADPHONE. It is the board that you can write program on PC and then can download to apply instantly.

ET-BASE PX32 V1.0 uses MCU No.P8X32A 40 PIN DIP from PARALLAX and its capability is obviously higher than BASIC STAMP. It is 32 BIT MCU, 8 COG MULTIPROCESSOR; so it is similar to having 8 MCU in one CHIP.The method to develop program is to use SOFTWARE TOOL "PROPELLER" that is run on WINDOWS XP/VISTA. It is the SOFTWARE that can write program, COMPILE CODE and DOWNLOAD CODE through RS232. In this case, it uses "SPIN" Language to write program, so it make user can write and develop program easily and quickly. Moreover, it includes LIBRARY VGA, TV, KEYBOARD, RS232, and MOUSE that are ready to apply and user doses not waste time to write them by self.

> Specifications of Board

- Use MCU P8X32A, 40 PIN DIP TYPE, X' TAL 5MHz can be made PLL inside to be RUN at 80MHz.
- EEPROM No. 24LC256 (32KBYTE) to store code program.
- POWER SUPPLY 6-12VDC by using IC switching LM2575 for 5VDC and LM3940 for 3.3V
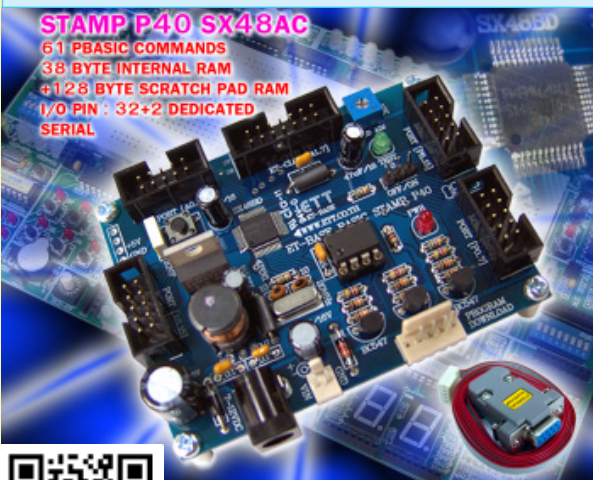- PORT ON BOARD
- Board Size : 6.2 x 8.1 cm. Standard ET-BASE

PORT KEY BOARD (PS2) AS MiNi JACK TO INTERFACE WITH KEY BOARD PC

PORT MOUSE (PS2) AS MiNi DIN JACK TO INTERFACE WITH MOUSE OF PC

PORT RS232 AS 5 PIN WAFER TO INTERFACE WITH PORT RS232

PORT VGA AS D-SUB 15 PIN TO INTERFACE WITH VGA SCREEN

PORT TV (AV) AS RCA JACK TO INTERFACE WITH TV INTO THE AV CHANNEL

PORT MIC AS 2 PIN WAFER TO INTERFACE MICROPHONE

PORT HEADPHONE AS PHONE JACK TO INTERFACE WITH AUDIO OUT OF AMPLIFIER

PORT I/O 8 PIN AS 10 PIN HEADER TO INTERFACE WITH I/O THAT IS NOT HIGHTER THAN 3.3V

- ET-BASE PX32 V1.0 include;
  1. BOARD ET-BASE PX32 V1.0
  2. CD-ROM WITH USER'S MANUAL AND EXAMPLE PROGRAM THAT CAN BE RUN ON WINDOWS XP/VISTA
  3. CABLE DOWNLOAD ET-RS232 5 PIN TO DB 9 PIN

ET-BASE STAMP P40 (P-ET-A-00302)

A small Board controller can be used for general purpose or can be connected with ET-BASE I/O V1.Using Basic Stamp Language to write and develop program, so it is not too difficult to apply for unskilled user for writing Program Assembly. Therefore, user can write program to test and apply for other project work easier.

- Use CPU SX48AC that has PBASIC from PARALLAX and has the all rights reserved inside.
- RUN 20MHz, INTERNAL RAM 38 BYTE + 128 BYTE SCRATCH PAD RAM (32 I/O, 26 VARIABLE)
- EEPROM PROGRAM 16 KBYTE No.24WC128 can be written by BASIC Language up to 4000 Commands, RUN with 12,000 Commands/Second, directly LOAD BASIC Language Commands from PC to Board through PORT RS232 without using any COPY.
- 61 PBASIC COMMANDS
- 4 of 10 PIN ET BUS I/O
- 14 PIN LCD PORT CHARACTER TYPE
- I/O PIN : 32 + 2 DEDICATED SERIAL
- POWER SUPPLY ON BOARD as DC SWITCHING by using IC LM2575-5 INPUT 7-12VDC
- PCB size 6.2 x 8.1 cm. standard ET-BASE SIZE
- ET-BASE STAMP P40 consists of …
1. Board ET-BASE STAMP P40
2. CD-ROM User's Manual and Program for running on WINDOWS 98/ME/XP/2000
3. CABLE DOWNLOAD ET-RS232 5 PIN TO DB 9 PIN
(can use POWER SUPPLY version 10VDC/850MA OPTION)

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