ET-STAMP ADuC847(32K)
(P-ET-A-00479)

ET-STAMP ADuC847 www.ett.co.th
ET-STAMP ADuC847
www.etteam.com

22.86 mm. 900 mil
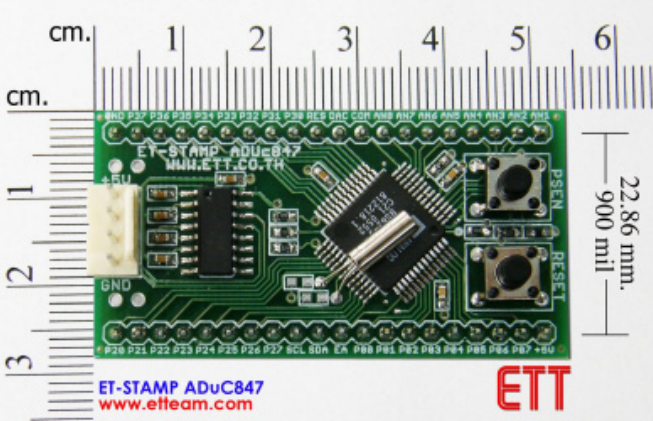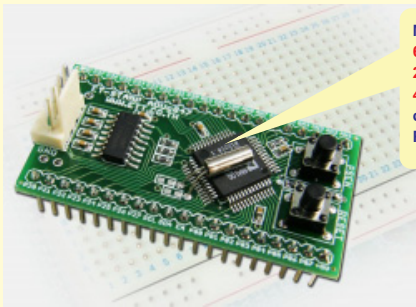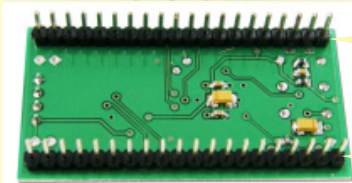
ET-STAMP ADuC847 is MCS51 Board Microcontroller No. ADuC847BS62-5 from ANALOG DEVICE Company. It runs at +5V (4.75-5.25V).

It is designed as a mini board that can be assembled with circuits easily and more convenient, including PROJECT BOARD.

MCU **ADuC847BS62-5 52PIN MQFP**
62 KBYTE FLASH Memory,
2304 BYTE RAM,
4 KBYTE FLASH Memory for storing data
Run as **1 CLOCK/1** Instruction

Board is placed on Connector PIN HEADER. There are 20 PIN per each side, so there is 40 PIN in total with 2.54 mm. PITCH. and 22.86 mm/900mil between row of PIN HEADER and 22.86 mm/900mil distance between row of PIN HEADER

Specifications of ET-STAMP ADuC847

● Use MCU No.ADuC847BS62-5 52PIN MQFP; 62 KBYTE FLASH Memory, 2304 BYTE RAM, and 4 KBYTE FLASH Memory for storing data

● MCU MCS51; run as 1 CLOCK/1 Instruction; use X'TAL 32.768KHz, Circuit PLL can process data 12.58 MIPS at the maximum

● Support programming data into MCU through PORT RS232; so, it is unnecessary to use any Programmer device

● Has 24BIT 8-CH A TO D and special functions; adjusting GAIN, Error Redemption, Interrupt Extermination, DIGITAL FILTER by SOFTWARE directly

● Has 12BIT 1-CH D TO A to generate maximum voltage of 0-5V (+VCC)

● Has Special 1-CH I2C BUS, it is not the same as standard PIN PORT

● Has additional circuits; WATCHDOG TIMER, 16BIT TIMER/COUNTER, 16BIT PWM

● Has 1 SW RESET, 1 SW PSEN for DOWNLOAD

● Has 4 PIN RS232 ICL3232 ON BOARD

● Has 5VDC POWER SUPPLY

● Board is placed on Connector PIN HEADER. There are 20 PIN per each side, so there is 40 PIN in total with 2.54 mm. PITCH. and 22.86 mm/900mil between row of PIN HEADER and 22.86 mm/900mil distance between row of PIN HEADER
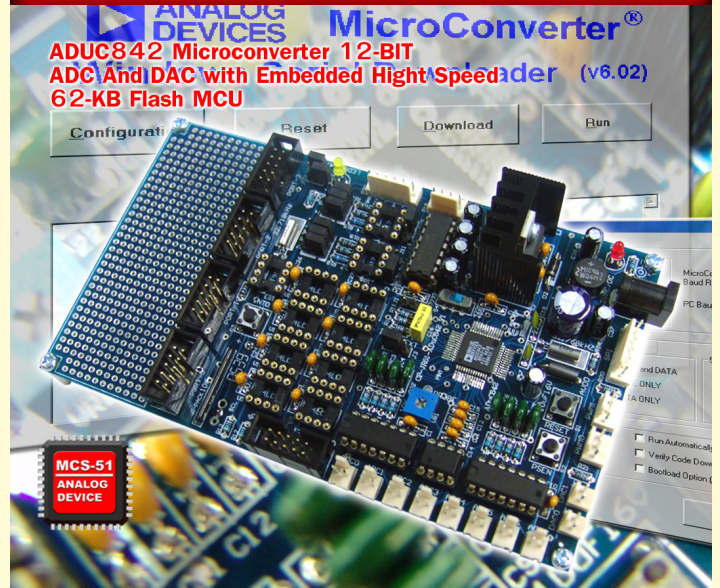
● PCB SIZE: 2.8 x 5.4 cm.

● ET-STAMP ADuC847 consists of…

1. Board ET-STAMP ADuC847
2. CD-ROM Program and User's Manual

CP-JR51ADU842 V1
(P-CP-A-00077)

ANALOG DEVICES MicroConverter®
ADUC842 Microconverter 12-BIT ADC And DAC with Embedded Hight Speed 62-KB Flash MCU
MCS-51 ANALOG DEVICE

ADuC842 MICROCONVERTER 12-BIT ADC AND DAC WITH EMBEDDED HIGH SPEED 62-KB FLASH MCU

It is new MCU from ANALOG DEVICE which has higher potential than CPU No.ADU832.

● PIN COMPATABLE UPGRADE OF ADU832 52 PIN MQFP RUN 1 CLOCK per 1 COMMAND

● SINGLE-CYCLE 20 MIPS 8052 CORE

● HIGH SPEED 420 KSPS 12 BIT ADC

● 62 KBYTE ON-CHIP FLASH

● 4 KBYTE EEPROM DATA, RAM 2304 BYTE

New Board Development MCS51 family is developed from CP-JR51ADU832 V1. It is higher speed of MCU and A to D. we can write program on computer PC then send data DOWNLOAD through PORT RS232 into board directly without using other programmers. In this case, we use Program of ANALOG DEVICES and runs on OS WINDOWS 98/ME/XP/2000.

● MCU No.ADUC842BS62 52 PIN MQFP

● RUN 1 CLOCK per 1 COMMAND maximum 16.78 MIPS (16.78 million COMMANDS per SECOND), FREQUENCY X'TAL 32.768 KHz

● A TO D 12 BIT 8 CHANNEL SPEED 420 KSPS with IC BUFFER OPAMP in the part of A TO D NO.TLV2474 for more consistently and accurately

● D TO A 12 BIT 2 CHANNEL with IC OPAMP to be BUFFER TLC272

● 62KBYTE FLASH PROGRAM, 4KBYTE EEPROM DATA, 256 +2KBYTE RAM

● 8 EXTERNAL EEPROM MEMORY VERSION 24LCXX 8 PIN DIP (OPTION) can be interfaced maximum 512KBYTE (using 8 OF 24LC15). It reduces problem of BATTERY BACKUP and board can use Port of MCU more efficiently because it does not share with ADDRESS and DATA.

● 4 ET-10 PIN PORT to be PORT 0, PORT 1, PORT 2, PORT 3

● 4 PIN RS232 MAX232 ON BOARD, 6 PIN RS422/485 75176 (OPTION)

● 10 PIN I2C BUS, RTC DS1307 (OPTION)

● PCB SIZE 15.3 x 9 cm, with PCB (Prototype Working Area)

● POWER SUPPLY 7 - 12VAC-DC, POWER 7805 REGULATOR ON BOARD

● CP-JR51ADU842 V1 consists of

1. BOARD CP-JR51ADU842 V1
2. CD-ROM User's Manual and Example
3. CABLE DOWNLAOD ET-RS232 DB 9 PIN

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