

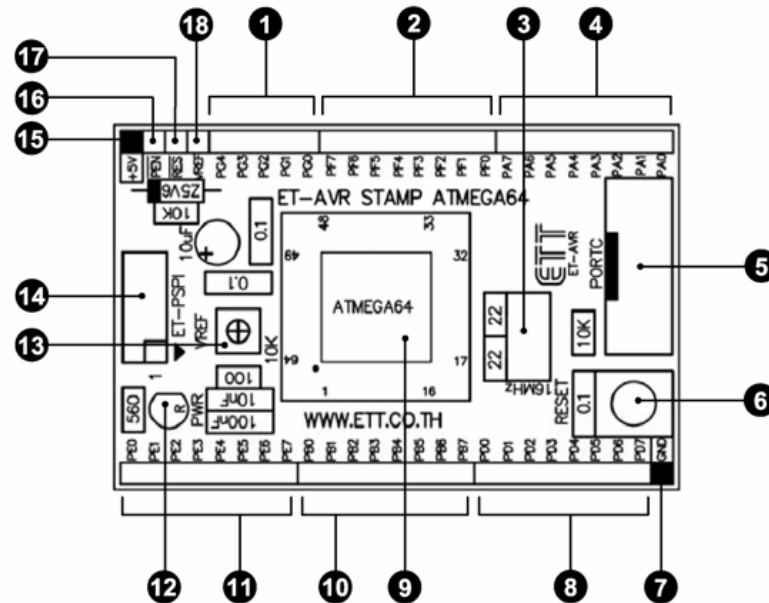
ET-AVR STAMP ATmega64

ET-AVR STAMP ATmega64 which is Board Microcontroller AVR family from Atmel uses MCU No. ATmega64 with 64 PIN. Board structure is designed arrangement in small size because it is convenient for adaptation. MCU circuit which is arranged neatly and in order with basic devices is arranged its pin outwardly. It makes user convenient to interface. Board uses power supply as +5V.

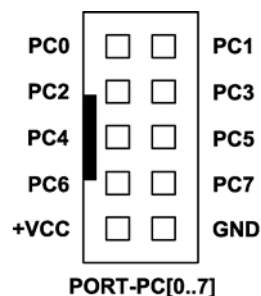
Board Specifications

1. 8-Bit MCU AVR family No. ATmega64 from Atmel
2. Crystal 16 MHz
3. Support SPI and JTAG Programming (Have to use with Board ET-AVR START KIT V 1.0)
4. Power Supply 4.5-5.5 V
5. Inside MCU has 64 KB Internal Flash Program Memory, 4 KB RAM, 2 KB EEPROM that can erase and rewrite more than 100,000 times
6. Maximum 53 I/O Pins and I/O Pin can use with other functions as following;
 - 1-Channel SPI, 1-Channel I2C, 8-Channel 10-Bit ADC
 - 2-Channel Programmable Serial USARTs
 - 2-Channel Timers/Counters 8-Bit, 2-Channel Timers/Counters 16-Bit, 2-Channel 8-Bit PWM, Watchdog Timer, Real Time Counter
7. Temperature from -40 °C to +85°C
8. Dimensions: - PCB Size 1653.543 mil x 2559 mil (42 x 65 mm)
 - Pin Width 1500 mil, Pin Length 2400 mil (~ 38.1 x 61 mm)
 - Between Pins 2 x 25 Pins I/O Connector 100 mil (~ 2.54 mm)

Structure of Board ET-AVR STAMP ATmega64

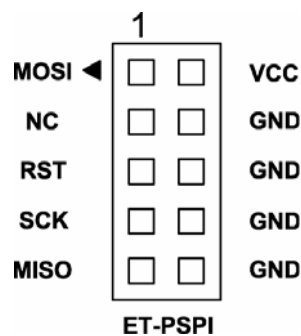


- **No.1** is **Port G** which includes PG0-PG4 have 5 Pins totally.
- **No.2** is **Port F** which includes PF0-PF7 have 8 Pins totally.
- **No.3** is **Crystal 16 MHz.**
- **No.4** is **Port A** which includes PA0-PA7.
- **No.5** is **Port C** includes PC0-PC8. This Port is connected external in the point of 10 PIN IDE Connector and its Pins arrangement as in the picture.



- **No.6** is **Switch Reset.**
- **No.7** is **GND Connector.**
- **No.8** is **Port D** which includes PD0-PD7.
- **No.9** is **MCU ATMEGA64** from Atmel.

- **No.10** is **Port B** which includes PB0-PB7.
- **No.11** is **Port E** which includes PE0-PE7.
- **No.12** is **LED PWR (RED)** which displays board status.
- **No.13** is **Resistor** which uses for adjusting default value of ADC in the AREF Pin point.
- **No.14** is **Port ET-PSPI** which uses for connecting with ISP Programmer circuit to program Hex File into AVR and its Pin arrangement is the same as STKxxx from Atmel.



- **No.15** is **Power Supply +5V Connector** of Board.
- **No.16** is **PEN Pin** which uses to enter into Mode of SPI Serial Programming. (Normally we don't use this mode.)
- **No.17** is **RESET Connector** which uses to reset from external devices.
- **No.18** is **AREF Connector** which uses to measure any pressure in the AREF Pin point.

Board Dimention

