

Testing Procedure

DT-COMBO BASIC BASE BOARD

With DT-AVR ATMEGA64/128 CPU MODULE

1. This test will be using the DT-AVR ATMEGA64/128 CPU MODULE. Connect the CPU MODULE with the DT-COMBO BASIC BASE BOARD.
2. On the DT-COMBO BASIC BASE BOARD perform these steps:
 - Release jumper J31 and arrange the positions of jumper J34 and J35 to point 2-3.
 - Arrange the positions of jumper J22, J23, J24, J25, J26, J27, J28, and J29 to point 2-3.
 - Connect PORT A, PORT B, PORT C, PORT D, PORT E, PORT F, and PORT G with the DT-I/O LED LOGIC TESTER or a series of active low LED.
 - Connect one of the J1 (UART0) or J2 (UART1) DT-COMBO BASIC BASE BOARD connector with the computer's serial port using a serial cable.
3. Connect ISP HEADER to the DT-AVR ATMEGA64/128 CPU MODULE with DT-HiQ AVR In System Programmer or other compatible programming tools.
4. Connect a 6.5-12 Volts DC power supply to the DT-COMBO BASIC BASE BOARD DC port. The power LEDs on the DT-AVR ATMEGA64/128 CPU MODULE and DT-COMBO BASIC BASE BOARD will light up. If one of or both LEDs did not light up re check the connections between the modules and the power supply.
5. Program the **ATMEGA64.PRJ/ATMEGA64.HEX** or **ATMEGA128.PRJ/ATMEGA128.HEX** using the DT-HiQ AVR In System Programmer or other compatible programming tools. During the download process, the programming indicator LED will light up.
6. If the download process succeeded, the LEDs which are connected to Port A, Port B, Port C, Port D, Port E, Port F, and Port G will light up one at a time. The LEDs at Port D bit 2 and 3 as well as Port E bit 0 and 1 will not light up because they are used as UART0 and UART1's serial communication line. While the LEDs on port G will only light up from bit 0 to bit 4.
7. Run the terminal program on the computer to see the serial data that is sent by the module to the computer. This serial communication uses the following configuration:
 - Baud rate : 9600 bps
 - Data bit : 8
 - Parity : none
 - Stop bit : 1
 - Flow control : none
8. When using a HEX view (not ASCII), monitor screen will show hex number from 00H up to FFH sent repeatedly.

◆ *Thank you for your confidence in using our products, if there are difficulties, questions or suggestions regarding this product please contact our technical support:*