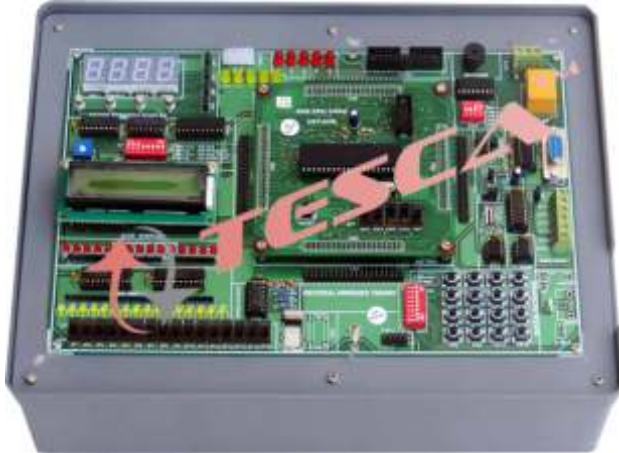


Order Code - 43511 Universal Embedded Trainer



Order Code - 43511 is a single board Embedded Kit based on ARM, AVR, 89CXX, PIC Microcontrollers for any Embedded applications.

Feature

01. **Optional- Not Included** - Daughter CPU Boards for
 - 43512 - Philips 89C61X2 Microcontroller.
 - 43513 - Microchip PIC 16F877A Microcontroller.
 - 43514 - Microchip PIC 18F452 Microcontroller.
 - 43515 - Philips ARM LPC 2148 Microcontroller.
 - 43516 - ATMEL ATmega32 Microcontroller.
02. ISP Programming facility for all Microcontrollers.

Onboard Applications

01. 16 LED's to display Digital Output.
02. 16 Switches to give Digital Input indicated by LED's.
03. 16x2 Alphanumeric LCD backlit display.
04. 4x4 Matrix Keyboard.
05. Miniature Buzzer.
06. 12V SPDT Relay.
07. 4 digit seven segment displays.
08. I2C compatible:
 - 24C512 EEPROM (64KB).
 - DS1307 RTC with suitable battery.
 - 4Ch. 8bit ADC & 1Ch. 8 bit DAC using PCF8591.
09. Temperature sensor interface using
10. Temperature sensor interface using
11. 24 I/O Lines Provided on a 26 pin FRC Connector for external interface.
13. On board supply +/- 12V, 5V, 3.3V, 2.5V, 1.5V & 1.2V is provided.
14. Supply Input Voltage: 230V AC.
15. All ICS are mounted on IC Sockets.
16. Bare board Tested Glass Epoxy SMOBC PCB is used.
17. Attractive Wooden enclosures of Light weight Australian Pine Wood.
18. User's Manual with 'C' source code sample programs for all on board applications.

Order Code 43512 89CXX Piggy-bag Module Feature

01. CPU: Philips 89C61x2 operating @ 11.0592MHz.
02. On-chip 64KB Flash memory and 1KB RAM.
03. On-chip UART, PWM.
04. On-chip 32 I/O Lines are provided in 40 pin Conn.
05. On-board Reset Key.
06. On-board ISP Programming.

Note: Specifications are subject to change.

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Order Code 43515 ARM



Order Code 43512 MCU

Order Code - 43513 & 43514 PIC Piggy-bag Module Feature

01. CPU: Microchip 18F452 operating @ 4MHz.
02. On-chip 32KB Flash memory and 1536 byte RAM.
03. On-chip 256byte EEPROM .
04. On-chip UART, SPI, I2C, PWM.
06. On-chip 8 Channel 10 bit ADC .
07. On-chip 32 I/O Lines are provided in 40 pin Conn.
08. On-board Reset Key.
09. ISP Programming (**Optional**).

Order Code - 43515

ARM Piggy-bag Module Feature

01. CPU: Philips LPC2148 operating @ 12MHz.
02. 16 bit / 32bit ARM7 TDMI-S Microcontroller.
03. On-chip 512KB Flash memory and 40KB RAM.
04. On-chip 14 Ch. 10 bit ADC and 1 Ch. 10bit DAC.
05. On-chip Real Time Clock, UART, SPI, SSP, I2C, PWM.
06. On-chip 48 I/O Lines are provided in 40 pin Conn.
07. On-board Reset Key.
08. On-board ISP Programming.

Order Code - 43516

AVR Piggy-bag Module Feature

01. CPU: Atmel ATmega32 operating @ 4MHz.
02. On-chip 32KB Flash memory and 1KB RAM.
03. On-chip 512byte EEPROM .
04. On-chip UART, SPI, I2C, PWM.
05. On-chip 8 Channel 10 bit ADC .
06. On-chip 32 I/O Lines are provided in 40 pin Conn.
07. On-board Reset Key.
08. ISP Programming (**Optional**).

Optional Addon Boards

01. **Order Code 43521** - Stepper Motor Controller with Motor.
02. **Order Code 43522** - Traffic Light Controller.
03. **Order Code 43523** - 128x64 Graphic LCD Display.
04. **Order Code 43524** - Servo Motor.
05. **Order Code 43525** - PS2 Keyboard.
06. ISP Programmer for PIC & AVR.

Order Code 43513 & 14 PIC



Order Code 43516 AVR