E89-01
89Cxx Embedded Trainer

E89-01 is a single board Microcontroller Trainer Kit based on 8 bit 8051 Microcontroller, which is widely used
to train engineers to develop on software/hardware for any industrial process & control.
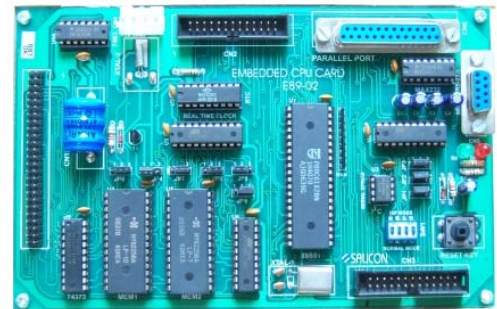
Feature

> CPU: Philips 89C51RD2 or 89S61X2 series
> On-board Internal Memory
  - 64K Internal Program Memory
  - 1K Internal Data Memory
> On-board Internal Memory
> Speed up to 20 MHz with 6-clock cycles per machine cycle (40 MHz equivalent performance); up to 33 MHz with 12 clocks per machine cycle
> Four interrupt priority levels
> Seven interrupt sources
> Four 8-bit I/O ports available in 26 pin FRC.
> On-Board ISP(in system Programming) facility
> Windows Based ISP Programming Software
> Compilers
  - Cross 'C' COMPILER for 8051 Family (Optional)
> All ports of CPU brought out on two 26 pin FRC.
> Two 26pin FRC cable & one 40 Pin FRC cable

ON-BOARD MODULES
  - 64K External DATA Memory using 2 nos. of 62256
  - REAL TIME CLOCK using RTC6242
  - I_2C Serial EPROM using 93c46
  - Printer Port brought out at 25 pin D-Type connector
  - 16x2 Alphanumeric LCD display with backlit
  - Six Seven Segment Displays
  - Stepper Motor Card with 0.25kgcms Motor (optional)
  - 12 Nos. of EWSN Status LED.
  - On-board 8 bit ADC using ADC 0804
  - Onboard 8 bit DAC using DAC0800
  - Data Switches using 8 way DIP switch
  - 16 Keys Keyboard Matrix
  - 2 channel Relay .
> In-Built Power Supply of +5V/1.5A, ±12V/250mA.
> User's Manual with sample programs

E89-02
89Cxx Project Board

E89-02 is a single board Embedded Kit based on Philips 8051 Microcontroller for any Embedded applications.

Feature

> CPU: Philips 89C51RD2 or 89S61X2 series
> On-board Internal Memory
    - 64K Internal Program Memory
    - 1K Internal Data Memory
> Speed up to 20 MHz with 6-clock cycles per machine cycle (40 MHz equivalent performance); up to 33 MHz with 12 clocks per machine cycle
> Four interrupt priority levels
> Seven interrupt sources
> Four 8-bit I/O ports available in 26 pin FRC polarized connector
> On-Board ISP(in system Programming) facility
> Windows Based ISP Programming Software
> Two 26pin FRC cable & one 40 Pin FRC cable
> On-Board REAL TIME CLOCK using RTC6242
> On-Board 64K External DATA Memory using 2 nos. of 62256
> I_2C Serial EPROM using 93c46
> On-Board Parallel Port brought out at 25 pin DType connector.
> All ICS are mounted on IC Sockets.
> Bare board Tested Glass Epoxy SMOBC PCB is used.
> In-Built Power Supply of +5V/1A, ±12V/150mA
> Attractive Wooden enclosures of Light weight Australian Pine Wood.
> User's Manual with sample programs
> 230mm x 140mm x 80mm (L x W x H)
> Weight 2 Kgs
> ALL IC-XX SERIES INTERFACING CARDS ARE COMPATIBLE WITH E89-02

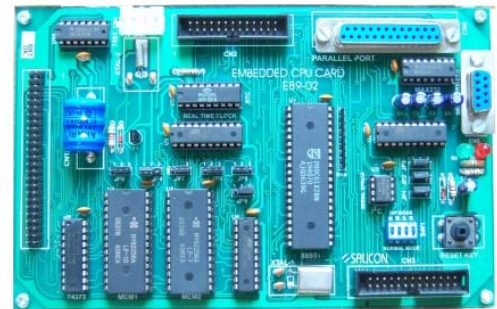# Salicon Nano Technology Pvt. Ltd.

E89-03
UNIVERSAL EMBEDDED KIT

E89-03 is a single board Embedded Kit based on PHILIPS Microcontroller & PIC Microchip Microcontroller for any Embedded applications

Feature

> CPU: Piggy Back Philips 89C51RD2 or 89S61X2 series & piggy Back Microchip PIC16F877A CPU OPERATING @4MHz
> Onboard Interfaces
>   - 6 Digit Seven Segment Displays
>   - 16x2 Alphanumeric LCD Display with backlit.
>   - 4x4 Keys Keyboard Matrix.
>   - On-board ISP Programming facility
>   - 12 Nos. of EWSN Status LED.
>   - 8 bit ADC using ADC 0804
>   - 8 bit DAC using DAC0800
>   - Four Data Switches
>   - 8 way DIP Switch Array
>   - Stepper Motor Controller with 0.25kgcm Stepper Motor (Optional)
>   - Reset switch provided for system reset
>   - Toggle switch for selection between application mode and ISP mode
> All ports of PIC IC brought out on two 26 pin FRC Polarized connector
> Two 26pin FRC Cable for interconnections provided
> Windows based ISP software
> Cross 'C' COMPILER for MICROCONTROLLER & PIC MICROCHIP Family (Optional)
> All ICS are mounted on IC Sockets.
> Bare board Tested Glass Epoxy SMOBC PCB is used.
> In-Built Power Supply of +5V/1.5A, ±12V/250mA
> Attractive Wooden enclosures of Light weight Australian Pine Wood.
> User's Manual with sample programs for all on board features

E89-02
89Cxx Project Board

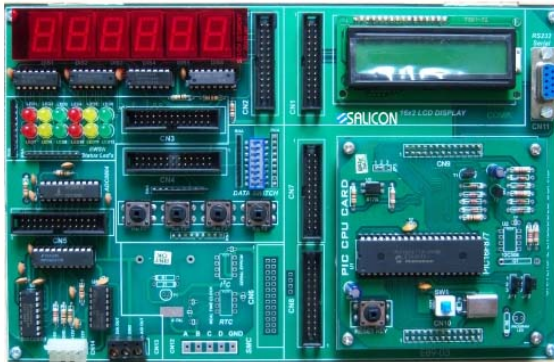**E89-02** is a single board Embedded Kit based on Philips 8051 Microcontroller for any Embedded applications.

Feature

> CPU: Philips 89C51RD2 or 89S61X2 series
> On-board Internal Memory
>   - 64K Internal Program Memory
>   - 1K Internal Data Memory
> Speed up to 20 MHz with 6-clock cycles per machine cycle (40 MHz equivalent performance); up to 33 MHz with 12 clocks per machine cycle
> Four interrupt priority levels
> Seven interrupt sources
> Four 8-bit I/O ports available in 26 pin FRC polarized connector
> On-Board ISP(in system Programming) facility
> Windows Based ISP Programming Software
> Two 26pin FRC cable & one 40 Pin FRC cable
> On-Board REAL TIME CLOCK using RTC6242
> On-Board 64K External DATA Memory using 2 nos. of 62256
> I₂C Serial EPROM using 93c46
> On-Board Parallel Port brought out at 25 pin DType connector.
> All ICS are mounted on IC Sockets.
> Bare board Tested Glass Epoxy SMOBC PCB is used.
> In-Built Power Supply of +5V/1A, ±12V/150mA
> Attractive Wooden enclosures of Light weight Australian Pine Wood.
> User's Manual with sample programs
> 230mm x 140mm x 80mm (L x W x H)
> Weight 2 Kgs
> ALL IC-XX SERIES INTERFACING CARDS ARE COMPATIBLE WITH E89-02

Salicon Nano Technology Pvt. Ltd.

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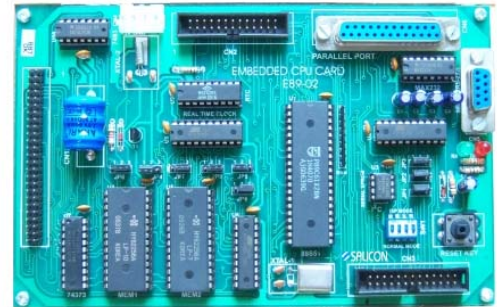
E89-04
PIC EMBEDDED KIT

E89-04 is a single board Embedded Kit based on PIC MicrochipMicrocontroller for any Embedded applications

Feature

> CPU: Microchip PIC16F877A CPUOPERATING @4MHz
> Onboard Interfaces
  - 6 Digit Seven Segment Displays
  - 16x2 Alphanumeric LCD Display with backlit.
  - 4x4 Keys Keyboard Matrix.
  - On-board ISP Programming facility
  - 12 Nos. of EWSN Status LED.
  - 8 bit ADC using ADC 0804
  - 8 bit DAC using DAC0800
  - Four Data Switches
  - 8 way DIP Switch Array
  - Stepper Motor Controller with 0.25kgcm Stepper Motor (Optional)
  - Reset switch provided for system reset
  - Toggle switch for selection between application mode and ISP mode
  - On-chip I_2C Serial EPROM
> All ports of PIC IC brought out on two 26 pin FRC Polarized connector
> Two 26pin FRC Cable for interconnections provided
> Windows based ISP software
> Cross 'C' COMPILER for MICROCONTROLLER & PIC MICROCHIP Family (Optional)
> All ICS are mounted on IC Sockets.
> Bare board Tested Glass Epoxy SMOBC PCB is used.
> In-Built Power Supply of +5V/1.5A, ±12V/250mA
> Attractive Wooden enclosures of Light weight Australian Pine Wood.
> User's Manual with sample programs for all on board features
> 270mm x 185mm x 105mm (L x W x H).
> Weight 3 Kgs.

E89-02
89Cxx Project Board

**E89-02** is a single board Embedded Kit based on Philips 8051 Microcontroller for any Embedded applications.

Feature

> CPU: Philips 89C51RD2 or 89S61X2 series
> On-board Internal Memory
  - 64K Internal Program Memory
  - 1K Internal Data Memory
> Speed up to 20 MHz with 6-clock cycles per machine cycle (40 MHz equivalent performance); up to 33 MHz with 12 clocks per machine cycle
> Four interrupt priority levels
> Seven interrupt sources
> Four 8-bit I/O ports available in 26 pin FRC polarized connector
> On-Board ISP(in system Programming) facility
> Windows Based ISP Programming Software
> Two 26pin FRC cable & one 40 Pin FRC cable
> On-Board REAL TIME CLOCK using RTC6242
> On-Board 64K External DATA Memory using 2 nos. of 62256
> I_2C Serial EPROM using 93c46
> On-Board Parallel Port brought out at 25 pin DType connector.
> All ICS are mounted on IC Sockets.
> Bare board Tested Glass Epoxy SMOBC PCB is used.
> In-Built Power Supply of +5V/1A, ±12V/150mA
> Attractive Wooden enclosures of Light weight Australian Pine Wood.
> User's Manual with sample programs
> 230mm x 140mm x 80mm (L x W x H)
> Weight 2 Kgs
> ALL IC-XX SERIES INTERFACING CARDS ARE COMPATIBLE WITH E89-02

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VLS-02
PAL/PLD TRAINER KIT
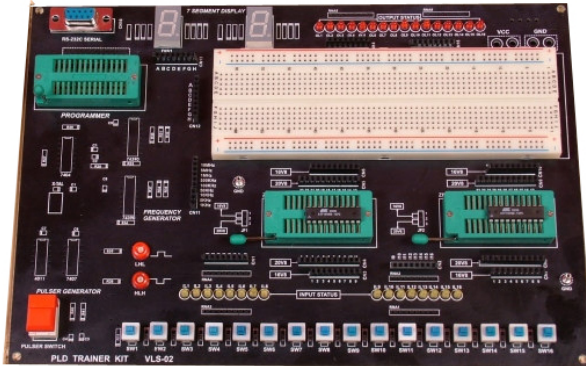
CPU

PLD IC using PALCE16V8 OR PALCE22V10

Indicators

1. 16 Toggle Input Switch with LED indication to indicate logic low and logic high
2. 16 LED for output indication.

Onboard Interfaces

1. 2 Digit Seven Segment Displays
2. 2 Nos. of 28 pin ZIF socket for Experiments

Mono Pulsar

Logic Pulsar provides single pole double throw bounce less pulses of Low to High and High to Low transition

Bread Board Area

1. Two Distribution Strip of 100 tie points each totaling 200 tie points
2. One Terminal Strip of 630 tie points

Clock Generator

On-board 5MHz, 1MHz, 500KHz , 100KHz, 50KHz,10KHz .

Programmer to program PLD IC's (Optional)

!Interconnections
    All inputs & outputs are connected through 8 pin burg Cable
1. All ICS are mounted on IC Sockets.
2. Bare board Tested Glass Epoxy SMOBC PCB is used.
3. In-Built Power Supply of +5V/1.5A, ±12V/250mA4
4. Attractive Wooden enclosures of Light weight Australian Pine Wood.
5. User's Manual with sample experimental programs

Salicon Nano Technology Pvt. Ltd.

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