**Power Supply**

**Target Hardware**

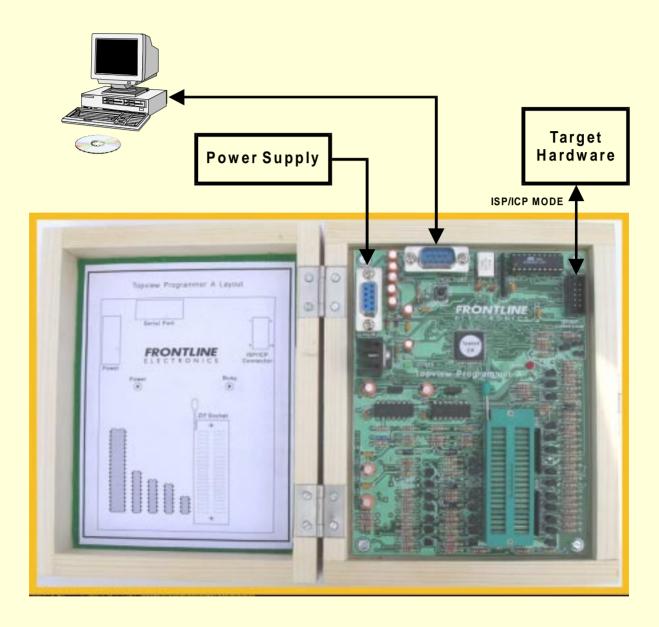**ISP/ICP MODE**

## Bundle Contents:

- Programmer Hardware mounted in the sleek wooden box.

- Power Supply.

- Serial Port Cable.

- ICP/ISP Programming Cable.

- Programmer User Guide.

- CD containing Programmer Software and other useful information.

**Specifications**

Topview programmer A is an exclusive professional programming environment to support as many 8051 Derivative microcontrollers as possible manufactured by the Philips semiconductors. The programmer supports popular and widely available microcontrollers with OTP and flash memories. Built-in facility is available to support many other compatible microcontrollers from the Philips stable in future.

Apart from these controllers, the programmer supports 24XX, 25XX and 93XX families of EEPROM devices from both Atmel and Microchip.

## List of Supported Devices

**OTP Devices:**

1.  P87C51
2.  P87C52
3.  P87C54
4.  P87C58
5.  P87C51X2
6.  P87C52X2
7.  P87C54X2
8.  P87C58X2

9.  P87C51FA
10. P87C51FB
11. P87C51FC
12. P87C51RA+
13. P87C51RB+
14. P87C51RC+
15. P87C51RD+
16. P87LPC760

17. P87LPC761
18. P87LPC762
19. P87LPC764
20. P87LPC767
21. P87LPC768
22. P87LPC769

**Flash Devices:**

1.  P89C51B
2.  P89C52B
3.  P89C54B
4.  P89C58B
5.  P89C51U
6.  P89C52U
7.  P89C54U
8.  P89C58U
9.  P89C51X2
10. P89C52X2
11. P89C54X2
12. P89C58X2
13. P89C51RB+
14. P89C51RC+
15. P89C51RD+
16. P89C51RB2H

17. P89C51RC2H
18. P89C51RD2H
19. P89C51RA2
20. P89C51RB2
21. P89C51RC2
22. P89C51RD2
23. P89V51RD2
24. P89LV51RD2
25. P89C60X2
26. P89C61X2
27. P89C660
28. P89C662
29. P89C664
30. P89C668
31. P89LPC901
32. P89LPC902

33. P89LPC903
34. P89LPC904
35. P89LPC906
36. P89LPC907
37. P89LPC908
38. P89LPC912
39. P89LPC913
40. P89LPC914
41. P89LPC915
42. P89LPC916
43. P89LPC917
44. P89LPC920
45. P89LPC921
46. P89LPC922
47. P89LPC924
48. P89LPC925

| | | |
|---|---|---|
| 49. P89LPC930 | 52. P89LPC932A1 | 55. P89LPC935 |
| 50. P89LPC931 | 53. P89LPC933 | 56. XA-G49 |
| 51. P89LPC932 | 54. P89LPC934 | 57. XA-G39 |

**EEPROM Devices:**

| | | |
|---|---|---|
| 1. 24AA00 | 32. 24LC21A | 63. 24C1024 |
| 2. 24C00 | 33. 24LCS21 | 64. 93AA46 |
| 3. 24LC00 | 34. 24LCS21A | 65. 93C46 |
| 4. 24AA01 | 35. 24LC024 | 66. 93C46A |
| 5. 24C01 | 36. 24LC025 | 67. 93C46B |
| 6. 24C01A | 37. 24AA32 | 68. 93C46C |
| 7. 24C01B | 38. 24AA32A | 69. 93LC46 |
| 8. 24C01C | 39. 24C32 | 70. 93LC46A |
| 9. 24LC01B | 40. 24C32A | 71. 93LC46B |
| 10. 24AA02 | 41. 24FC32A | 72. 93AA56 |
| 11. 24C02 | 42. 24LC32 | 73. 93C56 |
| 12. 24C02A | 43. 24LC32A | 74. 93C56A |
| 13. 24C02B | 44. 24LCS52 | 75. 93C56B |
| 14. 24C02C | 45. 24AA64 | 76. 93LC56 |
| 15. 24LC02B | 46. 24C64 | 77. 93LCS56 |
| 16. 24AA04 | 47. 24LC64 | 78. 93AA66 |
| 17. 24C04 | 48. 24AA65 | 79. 93C66 |
| 18. 24C04A | 49. 24C65 | 80. 93C66A |
| 19. 24LC04B | 50. 24FC65 | 81. 93C66B |
| 20. 24AA08 | 51. 24LC65 | 82. 93LC66 |
| 21. 24C08 | 52. 24AA128 | 83. 93LC66A |
| 22. 24C08A | 53. 24C128 | 84. 93LC66B |
| 23. 24C08B | 54. 24CS128 | 85. 93LCS66 |
| 24. 24LC08B | 55. 24FC128 | 86. 93AA76 |
| 25. 24C16 | 56. 24LC128 | 87. 93C76 |
| 26. 24C16B | 57. 24C256 | 88. 93LC76 |
| 27. 24AA16 | 58. 24AA256 | 89. 93AA86 |
| 28. 24LC16B | 59. 24CS256 | 90. 93C86 |
| 29. 24C164 | 60. 24FC256 | 91. 93C86 |
| 30. 24C21 | 61. 24LC256 | 92. 93LC86 |
| 31. 24LC21 | 62. 24C512 | |

- Supports more than 75 popular and widely available Philips Microcontrollers.

- Also supports around 100 EEPROM devices from both Atmel and Microchip.

- Single 40 pin ZIF socket to accommodate DIP devices.

- Devices with operating voltage 3.3V and 5V can be programmed.

- Facility also available to program ICP (for LPC9XX series) and ISP mode after soldering the device in the target board using a 10-pin cable. The cable is made available along with the programmer.

- Verification at different voltages can be done as per Philips specification.

- Programmer can be upgraded to support new devices at your premises.

- Programmer can be connected through serial port of the personal computer.

- LED indicators are provided for Power and Busy Status.

- The programmer is mounted in a sleek and eye catching wooden jewel box.

- Programmer comes with a separate power supply and serial port cable and ICP/ISP programming cable.

**Programming Features:**

- Supports both Binary and Hex formats.

- Commands and Functions as per Philips specification.

- **Major Commands:**

  - Erase.

  - Blank Check.

  - Protect the Device against Copying.

  - Read the Device Signature.

  - Read the Protection Status.

  - Device Configuration.

  - Program Status Byte and Boot Vector.

  - Program Flash Memory.

  - Program Encryption Table.

  - Program User Program Table.

  - Verify.

  - Cycle Redundancy Check.

- Auto Programming Mode to automate the selected commands.

- Multiple devices can be programmed in production floor.

- Project management facility.

- Verification at various voltages as per your choice.

- You can read the flash memory contents as the program.

- You can edit, assemble and modify your application code.

- Facility to program EEPROM devices, 24XX, 25XX and 93XX from Atmel and Microchip.

# FRONTLINE
## E L E C T R O N I C S

[Specifications](#)      [Pricing Information](#)      [FAQ](#)      [Contact](#)

**Pricing Information**

**For International Customers:**

The basic cost is $90.00 US.

Other expenses are extra as per actuals.

**For Indian Customers:**

The basic cost of the Topview Programmer A is Rs 2999/-.

Other Charges:

a. Sales Tax at actuals.

b. Forwarding and COD charges at actuals by Courier.

**Total Cost of the Topview Programmer A:**

**Mode 1:     Delivery through Courier on COD Basis (Only for rest of Tamilnadu Customers):**

| | | |
|---|---|---|
| a.  Basic Cost of the Topview Programmer A | : Rs. | 2999.00 |
| b.  Sales Tax 12% | : Rs. | 359.88 |
| c.  Add 5% S.C @ S.T | : Rs. | 17.99 |
| d.  Forwarding Charges | : Rs. | 182.00 |
| e.  COD charges by Courier | : Rs. | 110.00 |
| | | ------------------- |
| Total Cost | : Rs. | 3668.87 |
| | | ------------------- |
| **Rounded off to** | **: Rs.** | **3669.00** |

**Mode 2:**   **Delivery through Speed Post against advanced payment by Demand Draft (DD) in favour of Frontline Electronics Pvt Ltd., payable at Salem.(For rest of Tamilnadu Customers):**

a.   Basic Cost of the Topview Programmer A         : Rs. 2999.00
b.   Sales Tax 12%                                            : Rs.   359.88
c.   Add 5% S.C @ S.T                                       : Rs.     17.99
d.   Forwarding Charges                                    : Rs.   185.00
                                                                          --------------------
     Total Cost                                               : Rs.  3561.87
                                                                          --------------------
     **Rounded off to**                                     **: Rs.  3562.00**

**Mode 3:**    **Delivery through Courier against advanced payment by Demand Draft (DD) in favour of Frontline Electronics Pvt Ltd., payable at Salem.(For Tamilnadu Customers):**

a.   Basic Cost of the Topview Programmer A         : Rs. 2999.00
b.   Sales Tax 12%                                            : Rs.   359.88
c.   Add 5% S.C @ S.T                                       : Rs.     17.99
d.   Forwarding Charges                                    : Rs.   100.00
                                                                          --------------------
     Total Cost                                               : Rs.  3476.87
                                                                          --------------------
     **Rounded off to**                                     **: Rs.  3477.00**

**Frontline Electronics Pvt Ltd**
Pandian Street, Alagapuram, Salem - 636 016, Tamilnadu. India.
Phone : 0091 427 - 244 9238 / 243 1312.  Fax : 0091 427 - 244 9010.
Email : feplslm@frontlinemail.com
**www.frontline-electronics.com**

**Mode 4:     Delivery at our office primisses in person:**

a.   Basic Cost of the Topview Programmer A          : Rs.  2999.00

b.   Sales Tax 12%                                                      : Rs.    359.88

c.   Add 5% S.C @ S.T                                              : Rs.      17.99

                                                                                 --------------------

     Total Cost                                                           : Rs.  3376.87

                                                                                 --------------------

     **Rounded off to**                                            **: Rs.  3377.00**


**Note:** Kindly check whether you need to submit a sales tax form meant for material transfer when placing the order. If required, send the same in advance to speed up the delivery.
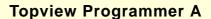
**Frontline Electronics Pvt Ltd**
Pandian Street, Alagapuram, Salem - 636 016, Tamilnadu. India.
Phone : 0091 427 - 244 9238 / 243 1312.  Fax : 0091 427 - 244 9010.
Email : feplslm@frontlinemail.com
**www.frontline-electronics.com**

**Frequently Asked Questions**

### 1. What are up-gradation facilities available in the programmer?

We have found the availability of following microcontrollers of Philips from many sources. With careful analyzing, we have incorporated up-gradation facility meant for these devices in the programmer.

These devices will be automatically included into the existing list as and when we complete testing them. And the new version of the programming software will be kept in our website for your convenience. Keep visiting our download section for the latest software updates.

The programmer's software has built-in facility to check for upgrades on its own. Whenever it finds a new update, it automatically updates the programmer's built-in monitor program to accept the new devices.

If you need to add an immediate support to any of these devices, kindly send sample devices along with your purchase order enabling us to complete the testing for your requirement.

Since we have conceived, designed and manufactured these Device Programmers ourselves, you are assured of our wholehearted, dedicated support for your future up-gradations.

**OTP Devices:**

| | | |
|---|---|---|
| 1.  87C51MB2 | 8.  87C528 | 15. 87C748 |
| 2.  87C51MC2 | 9.  87C552 | 16. 87C749 |
| 3.  87C51RA2 | 10. 87C554 | 17. 87C750 |
| 4.  87C51RB2 | 11. 87C575 | 18. 87C754 |
| 5.  87C51RC2 | 12. 87C654X2 | 19. 87CL52X2 |
| 6.  87C51RD2 | 13. 87C660X2 | 20. 87CL54X2 |
| 7.  87C524 | 14. 87C661X2 | |

**Flash Devices:**

| | | |
|---|---|---|
| 1.  89C535 | 4.  89C557E4 | 7.  89C739 |
| 2.  89C536 | 5.  89C669 | |
| 3.  89C538 | 6.  89C738 | |

Specifications          Pricing Information          FAQ          Contact

**Frequently Asked Questions**

**EEPROM Devices:**

1. AT25010
2. AT25020
3. AT25040
4. AT25080
5. AT25128

6. AT25160
7. AT25256
8. AT25320
9. AT25640

10. AT25HP256
11. AT25HP512

We, at Frontline Electronics are trying our best to give maximum utility to our Topview Device Programmers with our wholehearted efforts. Programmer's Hardware and software come with built-in facility to take care up-gradations in future.

As of now, this Topview Programmer A is the most advanced device Programmer available for this cost anywhere.

**If by chance, any of the future Philips device demands any special facility not possible in the existing hardware and software, we, at Frontline Electronics don't assume any responsibility for the same.**

2. **Is there any Programming Adapter meant for SMD devices available for the Programmer?**

As of now, we don't have any programming adapter available for PLCC and other packages. But, we have planned to introduce these adapters in the coming weeks for your convenience. Keep watching our website for latest news about these adapters.

3. **Where can I get your up-gradation software?**

Our website is the major platform, which supports the needs of our customers. We always keep our latest software in our site for your convenience.

**Frontline Electronics Pvt Ltd**
Pandian Street, Alagapuram, Salem - 636 016, Tamilnadu. India.
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**Frequently Asked Questions**

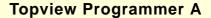4. **Is there any catch in Money Back Guarantee?**

   Well. We don't expect to get any returns from you. If you face any difficulty in using the programmer, make sure you have read the user manual completely. Otherwise, send an email to us indicating exact nature of the program to enable us to do the needful to sort out the issue.

   We advice you to use the programmer few times to get the complete picture on the utility value. If you still insist on returning the programmer, Kindly indicate the reason behind your decision and we always respect your decision.

5. **How can I evaluate the programmer?**

   You can download the copy of programmer software and also the user Guide from our website. You can use a reference data file to work around various facilities of the programmer.

**FRONTLINE**
E L E C T R O N I C S

**Topview Programmer A**

Specifications     Pricing Information     FAQ     Contact

**Contact**

We keep all relevant information on 8031 Microcontroller Tools and Development Software packages in our website, www.frontline-electronics.com. You can download the required details for your reference.

You can also send an email to feplslm@frontlinemail.com for any specific information/clarification. Always it is our pleasure to take an extra step to meet your exact needs.

Our address :  Frontline Electronics Pvt. Ltd.,

Pandian Street,

Alagapuram,

Salem - 636 016,

Tamilnadu,

India.

Phone  : 0091 427 244 9238 / 243 1312.

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