

**Bundle Contents:**

- Programmer Hardware mounted in the sleek wooden box.
- Power Supply.
- Serial Port Cable.
- SPI/ISP Programming Cable.
- Programmer User Guide.
- CD containing Programmer Software and other useful information.

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

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Specifications

Topview Device Programmer B is an exclusive professional programming environment to support many 8051 Derivative microcontrollers and AVR Devices manufactured by the Atmel. This literature gives you the list of devices supported by the programmer. Built-in facility is available to support many other microcontrollers from the Atmel 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. TS87C51U2 | 5. TS87C51RB2 |
| 2. TS87C52X2 | 6. TS87C51RC2 |
| 3. TS87C54X2 | 7. TS87C51RD2 |
| 4. TS87C58X2 | |

Flash Devices:**8051 Derivative Devices:**

- | | | |
|---------------|---------------|-----------------|
| 1. AT89S51 | 8. AT89LS53 | 15. AT89LV55 |
| 2. AT89LS51 | 9. AT89C51 | 16. AT89C55WD |
| 3. AT89S52 | 10. AT89LV51 | 17. AT89C1051 |
| 4. AT89LS52 | 11. AT89C51RC | 18. AT89C1051U |
| 5. AT89S8252 | 12. AT89C52 | 19. AT89C2051 |
| 6. AT89LS8252 | 13. AT89LV52 | 20. AT89C2051X2 |
| 7. AT89S53 | 14. AT89C55 | 21. AT89C4051 |

AVR Devices:

- | | | |
|---------------|---------------|-----------------|
| 1. AT90S1200 | 9. ATmega8 | 17. ATmega161 |
| 2. AT90S2313 | 10. ATmega8L | 18. ATmega161L |
| 3. AT90S4434 | 11. ATmega16 | 19. ATmega168 |
| 4. AT90LS4434 | 12. ATmega16L | 20. ATmega168V |
| 5. AT90S8515 | 13. ATmega48 | 21. ATmega8515 |
| 6. AT90LS8515 | 14. ATmega48V | 22. ATmega8515L |
| 7. AT90S8535 | 15. ATmega88 | 23. ATmega8535 |
| 8. AT90LS8535 | 16. ATmega88V | 24. ATmega8535L |

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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	

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- Supports more than 50 popular and widely available Atmel Microcontrollers.
- Also supports around 100 EEPROM devices from both Atmel and Microchip.
- Single 40 pin ZIF socket to accommodate DIP devices.
- Facility is also available to program through SPI (for AT89SXX series and AVR controllers) and ISP mode (for some of 89CXX devices) after soldering the device in the target board using a 10-pin cable. The cable is made available along with the programmer.
- 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 SPI/ISP programming cable.
- **Major Commands:**
 - Erase.
 - Blank Check.
 - Protect the Device against Copying.
 - Read the Device Signature.
 - Read the Protection Status.
 - Program Fuse Bits
 - Program Flash Memory.
 - Program Encryption Table.
 - Program On-chip EEPROM.
 - Verify.
- Auto Programming Mode to automate the selected commands.
- Multiple devices can be programmed in production floor.
- Project management facility.
- You can read the flash memory contents as the program.
- You can edit, assemble and modify your application code (for 8051 devices only).
- Facility to program EEPROM devices, 24XX, 25XX and 93XX from Atmel and Microchip.

Programming Features:

- Supports both Binary and Hex formats.
- Commands and Functions as per Atmel specification.

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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 Device Programmer B is Rs 2999/-.

Other Charges:

- a. Sales Tax at actuals.
- b. Forwarding and COD charges at actuals by Courier.

Total Cost of the Topview Device Programmer B:**Mode 1: Delivery through Courier on COD Basis (Only for rest of Tamilnadu Customers):**

a. Basic Cost of the Topview Device Programmer B	: Rs. 2999.00
b. Sales Tax 12%	: Rs. 359.88
c. Add 5% S.C @ S.T	: Rs. 17.99
d. Forwarding Charges	: Rs. 204.00
e. COD charges by Courier	: Rs. 110.00

Total Cost : Rs. 3690.87

Rounded off to : Rs. 3691.00

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Pricing Information

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 Device Programmer B	: 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 Device Programmer B	: 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

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Pricing Information**Mode 4: Delivery at our office premises in person:**

- | | |
|--|---------------|
| a. Basic Cost of the Topview Device Programmer B | : 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
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Rounded off to	: Rs. 3377.00
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Note: Kindly check whether you need to submit any sales tax form meant for material transfer when placing the order. If required, send the same in advance to speed up the delivery.

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Frequently Asked Questions**1. What are up-gradation facilities available in the programmer?**

We have found the availability of following microcontrollers of Atmel 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. AT87F51RC | 6. AT87F55 |
| 2. AT87F51 | 7. AT87LV55 |
| 3. AT87LV51 | 8. AT87F55WD |
| 4. AT87F52 | 9. T87C5102 |
| 5. AT87LV52 | 10. T87C5101 |

Flash Devices:**8051 Derivative Devices:**

- | | | |
|---------------|----------------|----------------|
| 1. AT89S2051 | 7. T89C51RB2 | 13. AT89C51IC2 |
| 2. AT89S4051 | 8. T89C51RC2 | 14. AT89C51ED2 |
| 3. AT89LP2052 | 9. T89C51RD2 | 15. AT89C51AC2 |
| 4. AT89LP4052 | 10. AT89C51RB2 | 16. AT89C51AC3 |
| 5. AT89S8253 | 11. AT89C51RC2 | |
| 6. AT89LS8253 | 12. AT89C51RD2 | |

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Frequently Asked Questions**AVR Devices:**

- | | | |
|--------------|-----------------|----------------|
| 1. ATtiny10 | 9. AT90LS2323 | 17. ATtiny28V |
| 2. ATtiny11 | 10. AT90S2343 | 18. AT90S4433 |
| 3. ATtiny11L | 11. AT90LS2343 | 19. AT90LS4433 |
| 4. ATtiny12 | 12. ATtiny2313 | 20. ATmega163 |
| 5. ATtiny12L | 13. ATtiny2313V | 21. ATmega163L |
| 6. ATtiny12V | 14. AT90S2333 | 22. ATmega323 |
| 7. ATtiny15L | 15. AT90LS2333 | 23. ATmega323L |
| 8. AT90S2323 | 16. ATtiny28L | |

EEPROM Devices:

- | | | |
|------------|------------|---------------|
| 1. AT25010 | 5. AT25128 | 9. AT25640 |
| 2. AT25020 | 6. AT25160 | 10. AT25HP256 |
| 3. AT25040 | 7. AT25256 | 11. AT25HP512 |
| 4. AT25080 | 8. AT25320 | |

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 Device Programmer B is the most advanced device programmer available for this cost anywhere.

If by chance, any of the future Atmel 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.

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Frequently Asked Questions**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.

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.

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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.

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