



# ARM7 - LPC1768 TRAINER

MODEL - ARM-7-1768

This trainer has been designed with a view to provide practical and experimental knowledge of ARM7 Family (LPC1768) microcontrollers.



## FEATURES

1. RTOS Support
2. Evaluate Real Time Applications
3. Supports Embedded C, ASM
4. ISP Programming / JTAG Debugging
5. Facility to interface external devices

## SPECIFICATIONS

1. MCU: LPC1768/66 Cortex M3
2. 100 Mhz, 256KB Flash,
3. 64KB RAM, Ethernet MAC
4. USB Host/ Device/OTG, x4 UARTS, CAN, SPI, SSP, I2C, I2S, ADC, DAC, TC
5. LCD NOKIA 6610 128x128 x12bit color TFT with Epson LCD controller
6. 3-axis digital accelerometer with 11 bit accuracy
7. Temperature sensor
8. Ethernet 100Mbit
9. CAN interface and connector
10. USB host connector
11. USB device connector
12. USB OTG connector
13. Two user LEDs
14. Three user buttons
15. Joystick
16. Potentiometer
17. Micro SD/MMC card connector

**Sigma Trainers and Kits**  
E-113, Jai Ambe Nagar,  
Near Udgam School,  
Thaltej,  
**AHMEDABAD - 380054.**  
**INDIA.**

**Phone(O): +91-79-26852427/ 26850829**  
**Phone(F): +91-79-26767512/ 26767648**  
**Fax : +91-79-26840290/ 26840290**  
**Mobile : +91-9824001168**  
**Email : sales@sigmatrainers.com**  
**: sigmatrainers@sify.com**  
**Web : www.sigmatrainers.com**

**Dealer:-**

17. Micro SD/MMC card connector
18. JTAG and TRACE connectors
19. Power supply
20. RESET circuit
21. UEXT connector
22. Audio IN
23. Audio OUT
24. RTC battery
25. Accessories :
  1. User Guide HW/SW
  2. CD Contains: Code, Programs, IDE, Data Sheets
26. Books for Embedded Systems :10 Nos in pdf Format
27. Mp4 Video Class for Embedded Systems :40 Classes in Mp4 on DVD / Pen Drive

## EXPERIMENTS

1. Interfacing LPC1768 to Seven Segment / RGB LED
2. Generation of PWM signal for motor control using LPC1768
3. Interfacing TFT display to LPC1768
4. Implementing CAN protocol using LPC1768
5. Implementing ETHERNET protocol using LPC1768
6. To Study basic I/O, Timer, Interrupt controller with on board peripheral.
7. To Study USB audio class with on board audio jack.
8. To Study and implement Usb mas storage class with MMC/SD card,
9. To Study webserver application using on board Ethernet interface.
10. To Study and implement eCos on board.