



ARM-9 - LPC2929 TRAINER

MODEL - ARM-9-2929

This trainer has been designed with a view to provide practical and experimental knowledge of 8051 family microcontroller.



FEATURES

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

SPECIFICATIONS

1. CPU : Samsung S3C2440A (ARM920T), 400MHz, max. 533Mhz
2. RAM : 64MByte SDRAM
3. 32bit Bus
4. 100MHz Clock
5. Flash : 64MByte or 128MByte Nand Flash, 2MByte Nor Flash with Bios
6. System Clock : 12Mhz Crystal
7. LCD : 4 wire resistive touch screen interface , STN-Displays, 4bit dual scan, 4bit single scan or 8bit single scan display type monochrome, 4 gray levels, 16 gray levels, 256 colors or 4096 colors
Max: 1024x768 TFT-Display, 1, 2, 4 or 8 bpp palletized color displays, 16 or 24 bpp non-palletized true-color displays Max: 1024x768, 64k colors
8. Interface and Resource :
 - 1 10/100M Ethernet RJ-45 (DM9000)
 - 3 Serial Ports (1 RS232)
 - 1 USB Host
 - 1 USB Device
 - 1 SD-Card Interface

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Dealer:-

- 1 Audio Output
- 1 Audio Input
- 1 Microphone
- 4 User LEDs
- 6 User Buttons
- 1 PWM Buzzer
- 1 Adjustable Resistance (for ADC testing)
- 1 I2C EEPROM
- 1 Real Time Clock with Battery (RTC)
- 1 20pin Camera Interface (2.0mm)
- 1 34pin GPIO (2.0mm)
- 9. OS Support :
 - Linux 2.6
 - Android
 - Windows CE 5 and 6
- 10. Books for Embedded Systems : 10 Nos in pdf Format
- 11. Mp4 Video Class for embedded systems : 40 Classes in Mp4 on DVD / Pen Drive

EXPERIMENTS

1. Download pre-configured Kernel Image, File System, bootloader to target device- ARM9.
2. Writing simple application using embedded linux on ARM9.
3. Writing "Hello World" device Driver. Loading into & removing from Kernel.
4. Write a program for I2C based RTC using embedded linux on ARM9.
5. Using Device driver for GPIO, write a program to blink LED.
6. Write a program for External Interrupt.
7. To study & Understand Linux Device Driver Development
8. To study & Understand Windows Embedded System.
9. To study and port android os on board.