

CIC-900

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ARM9 START KIT



Today SoCs are widely used in the computer, communications and consumer electronics appliances-mobile phones, PDAs, laptops, DTVs and other devices. This is the beginning of the SoC era.

With Samsung's S3C2500 16/32-bit RISC microcontroller CIC-900 is based on an ARM9 CPU core and is a cost-effective, high-performance microcontroller solution for Ethernet-based systems, for example, SOHO router, internet gateway, WLAN AP, etc..

The CIC-900 ARM9 Start Kit is intended for the beginners with great interest in the architecture and operation of the System-on-Chip devices. Furthermore, users can design the applications using this new and exciting technology. It can also be used as a lab course for undergraduate and master students of computer science, computer engineering and electrical engineering.

Metereal of Features

1. Guided Learning Software Platform
2. Complete Teaching Tools and Manuals
3. Source Codes Provided
4. Protective Case
5. Complete BootLoader Teaching Solution

Scope of Experiments

1. BootLoader Initialization
2. I/O Control:
 - (1) I2C Controller
 - (2) Ethernet Controller
 - (3) HDLC Controller
 - (4) USB Controller
 - (5) GDMA Controller
 - (6) Console UART & High Speed UART Controller
 - (7) I/O Ports
 - (8) Timer
 - (9) Flash ROM

System Requirements

1. PC with Pentium II or better CPU
2. Windows 98/2000/XP
3. Development Tools
 - ARM Software Development Toolkit (optional)
 - Code Warrior for ARM Developer Suite (optional)



System Specification

ITEM	SPECIFICATION
ARM9 module	See ARM9 Module Specification
Front panel	2 sets of Ethernet 10/100/Active LEDs 8 Debug LEDs 4 Interrupt Buttons Power Switch
Power Supply	AC Input Voltage:100-240VAC, 47-63Hz DC Output Voltage: 5 VDC
Humidity	≤ 70% RH
Operating Temperature	0°C to 40°C
Storage Temperature	0°C to 70°C

ARM9 Module Specification

ITEM	SPECIFICATION
CPU	ARM9, Samsung S3C2500, 32-bit RISC, 166MHz
Flash ROM First Level	512KBytes
Flash ROM Second Level	2MBytes
SDRAM	64MBytes (32MBytes x 2), 133MHz
Timer/Counter	Six 16-bit multi-function
Interrupt Controller	Programmable Priority
Watch Dog Timer	8-bit
USB 1.1 Slave	One port
RS-232	Console UART x 1, High-speed UART x 2
Reset Button	
Power	5V DC
Ethemet	2 ports, 10/100 MBps, RJ-45
LCD	Text mode, 20 characters x 4 rows, Back-light
GPIO, Push Buttons, and LEDs	28 pins, settable through jumper
EEPROM	1 set of I2C Serial EEPROM