

LN2410SBC

General Description

ARM920T 코어 기반의 고성능 보드로, 산업용 싱글 보드 컴퓨터의 기능을 대신할 수 있다. 인텔 x86 계열의 프로세서는 전력 소모와 발열 문제로 전지 형태의 제품에는 불리한 면이 많은데, 본 제품은 대부분의 기능을 대치하면서도 저전력 소모와 저가격의 장점이 있어 GUI 기반의 패널 PC 형태의 다양한 제품 개발에 적합하다.

아울러 WindowsCE/Embedded Linux 기반 하에서는 PC용 프로그램의 전환도 쉬워 OS 기반의 제품 개발이 활성화되어 있다.

Features

- Competitive Price – 300,000원
- Low Power Consumption & High Performance
- Small form factor, 140mm × 78mm (2.5")
- High density – UART, USB, Ethernet, Audio, Mass Storage(NAND, CF, SD, IDE)
- Supplied with schematics design, various example codes and Bootloader
- Supports BSPs of leading OS, including WindowsCE.net, Embedded Linux and uC/OS-II

Specifications

Specification		
H/W	CPU	Samsung S3C2410A (ARM920T, 200MHz)
	Memory	64MB SDRAM
		2MB NOR Flash + 32MB NAND Flash
	Timer	PWM Timer 4ch, Internal Timer 1ch
	Watchdog Timer	
	RTC	
	ADC	10bit SAR 8ch
	UART	3ch (RS232 1ch, TTL 2ch)
	USB	Host 1ch, Device 1ch
	Ethernet	10 BASE-T 1ch
	Audio	IIS 16bit Stereo Audio Out
		Speaker on board
	Infrared Receiver Interface	
	Compact Flash Card Interface	Memory Mode
	SD Card Interface	

	HDD/CDROM Interface	IDE Mode(ATA/ATAPI)
	JTAG Port	
	Extension Connectors	Generic connector for an LCD panel
		Generic connector for GPIO
	Dimension	140mm x 78mm (2.5")
	Operating Temperature	0 ~ 70°C
S/W	Firmware Sources	Supports ADS and RVDS
	OS	uC/OS-II porting source
		WindowsCE.net BSP binary
		Linux source code & pre-built binary

Product Images



Target Applications

- Automotive
- Networking Applications
- Operating System Based Devices

Development Tools

Clabsys is one of ARM authorized distributors for ARM Development Tools and provides the technical support for the full ARM development tool range.

- Software Development Tools
 - ADS (ARM Developer Suite)
 - RVDS (RealView Developer Suite)
- Hardware Development Tools
 - Multi-ICE
 - RealView ICE

Operating Systems

- WindowsCE.net
- Embedded Linux
- uC/OS-II

Related Products

Part Number	Description	Available
LP64	6.4" VGA LCD Kit with Touch Screen	Now
LP40	4.0" WQVGA Kit with Touch Screen	Now
LP35	3.5" QVGA LCD Kit with Touch Screen	Now
LP18	1.8" LCD Kit (CF Type)	Now
J-Flash	JTAG Module for Flash Downloading	Now

For further information, please refer to the [product flyer](#).

Packing List

- LN2410SBC Board
- JTAG Adapter
- Serial Cable
- USB Cable
- LAN Cable
- Power Supply : 5V/2A SMPS
- CD

CD Contains:

Design Resources

- Schematics
- Pin Description
- Package Drawing

Documentation

- User's Manual
- Reference Documents
- Product Information Flyers

UsbDriver

Utility

- ArmDown
- DNW

Example Sources

Clabsys offers a package of low level routines and libraries to help the developers rapidly bring up the applications. The firmware examples are created on various compilation tools such as ADS and RVDS.

- Firmware Example Source Codes
- uC/OS-II Porting Source
- Windows CE.net BSP Binary image
- Embedded Linux

Binary Image

- Bootstrap
- Firmware Image for QC