

LN2440SBC

General Description

400MHz 고성능 ARM9 프로세서를 탑재하고 있을 뿐 아니라, GPS, TV-Out, TFT LCD, SD/MMC, CF, Sound 등의 기능이 집적되어 있어 고기능의 카 네비게이션 시스템을 개발하는데 적합하다. 아울러 지상파 DMB와 카메라 입력 등의 기능을 가지고 있어 제품 개발 시 레퍼런스 보드로 사용할 수 있으며, 초소형의 장점이 있어 Automotive 개발에 필수적인 실장 테스트에 유리하다.

Features

- Competitive Price – 390,000원
- Low Power Consumption & High Performance
- Small form factor, 140mm × 78mm (2.5")
- High density – T-DMB I/F, Camera I/F, GPS I/F, TV-Out, LCD, Mass Storage(NAND, CF, SD/MMC, 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 S3C2440A (ARM920T, 400MHz)
	Memory	64MB SDRAM
		32MB NAND Flash
	Timer	PWM Timer 4ch, Internal Timer 1ch
	Watchdog Timer	
	RTC	With Lithumn Battery
	ADC	10bit SAR 8ch
	UART	3ch (RS232 1ch, TTL 2ch)
	USB	Host 1ch, Device 1ch
	SIO	SPI 2ch, IIC 1ch, IIS 1ch
	Ethernet	10 BASE-T 1ch
	Camera Interface	<Option> 1.3M CMOS Camera Module
	Audio	AC97 16bit Stereo Audio Out
		Microphone In
		Speaker Interface

	Infrared Receiver	
	Compact Flash Card Interface	Memory Mode
	SD/MMC Card Interface	
	HDD/CDROM Interface	IDE Mode(ATA/ATAPI)
	T-DMB Interface	<Option> T-DMB Module
	Video In	<Option> Video Decoder Module
	TV-Out	<Option> NTSC TV Encoder with scaler
	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
CM13	1.3M CMOS Camera Module	Now
J-Flash	JTAG Module for Flash Downloading	Now

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

Packing List

- LN2440SBC 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

Tool Support Package

- Multi-ICE
- RealView ICE