

## SOM6410:S3C6410(ARM1176JZF-S) System Module (compact:4x4cm,8g)

Item#: SOM6410

In stock qty: 30

Brand: [TECHOR](#)

Gross weight: 8gram

Added time: 2010-11-27

Clicks : 10181



**SOM6410是一款世界上尺寸最小(4x4cm,5mm厚)集成度最高(CPU外围集成Ethernet、音频Codec)的系统模块(System Module)。**专门面向手持终端设备、PDA、人机界面、自动售货机、广告机、监控设备、通讯设备等设计的高性价比核心板，该核心板采用半孔式设计结构，可直接焊接在底板上，其特点是尺寸小，功能全，焊接方便，功耗小，性能稳定。

**SOM6410 具有667MHz高主频的ARM1176JZF-S内核，比相同主频的AM9性能高4倍，内置Multi Format Codec,具备超强的视频codec能力(Codec H.264 up to 30fps@SD)，性价比高，超低功耗，是安防监控、可视对讲的不二选择。**

## 功能特点【具体功能接口见Spec】：

- ◆ 全面替代S3C2440，且性能提高几个数量级，价格高不了多少
- ◆ 模块背面无任何器件,方便直接贴焊或通过插针与应用板板相连
- ◆ 商业级(0°~70°)、工业级(-40°~85°)
- ◆ 微尺寸(40x40x4mm)、低价格(千片有惊喜价！)
- ◆ 高性能(667MHz ARM11, 内置2D/3D硬件加速器, Codec H.264 up to 30fps@SD)、接口丰富
- ◆ 可接多种尺寸屏,,带2D/3D加速动画视频更流畅

◆ 提供WINCE6.0、LINUX2.6系统，用户只需专注应用无需关心底层及驱动

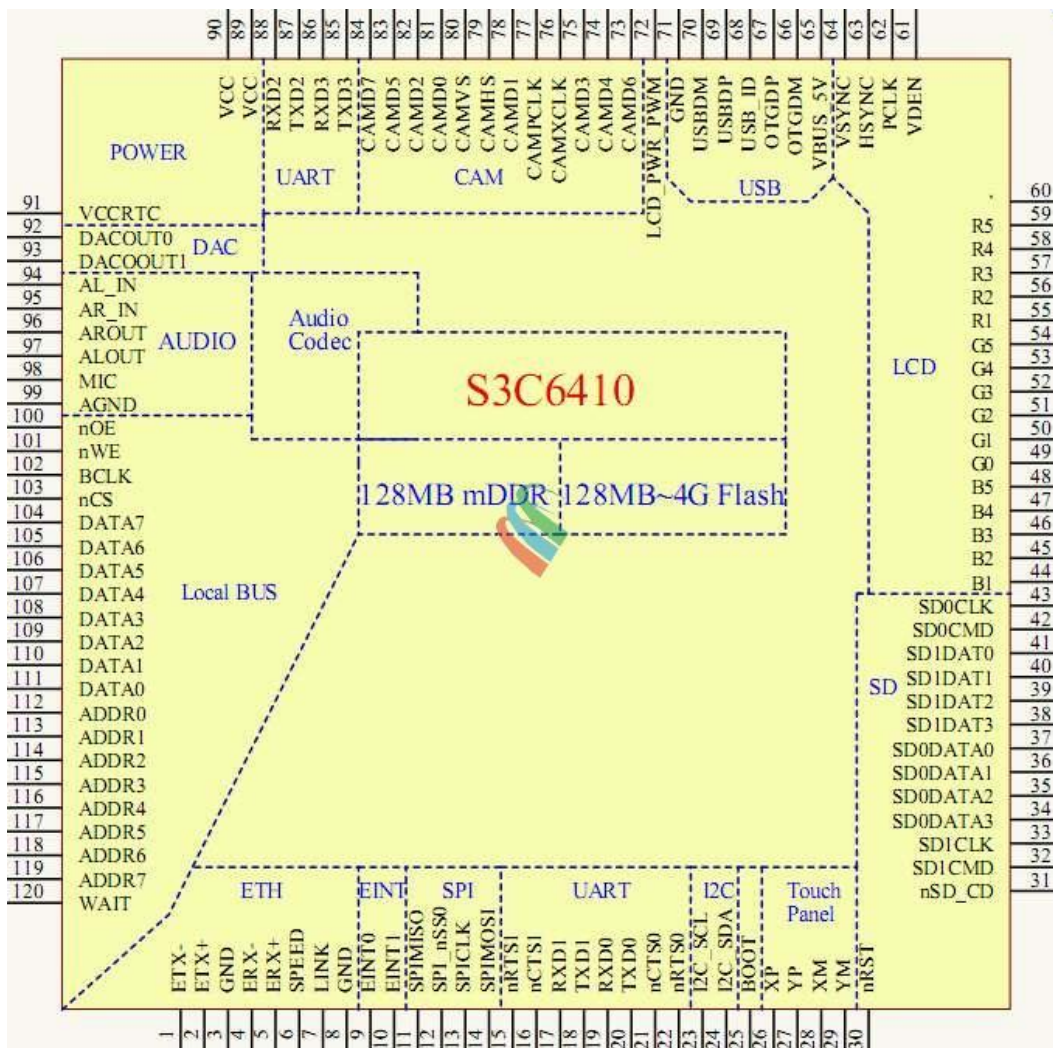


接受定制服务，可快速定制WIFI、GPRS/3G、GPS、Zigbee、CAN、蓝牙、多串口、矩阵键盘等接口



适用于工控、电力、通讯、医疗、媒体、安防、车载、金融、消费电子、手持设备、教学等领域用作控制板、终端、POS、快递终端、人机交互界面嵌入式模块

SOM6410 package and Diagram:



<b>Specification</b>	<b>General</b>
[Dimensions(LxWxH),mm]	40x40mm, 3mm thickness
[Temperature Range]	0~70 degree, I/E Class optional
[Extended Temperature Option]	Available on MOQ 500
[RoHS(lead-free) option]	Available on MOQ 500
[Power Supply/Consumption]	0.5W on full speed
[Boot Options]	On board NAND / Off board SD/MMC
[JTAG]	8pin test point on bottom layer
[Availability]	Samples/Small Qty Now
<b>Capability</b>	
[Processor(Core)]	Samsung S3C6410(ARM1176JZF-S)
[Speed: CORE/SDRAM]	667MHz(FCLK)/266MHz(HCLK)/67MHz(PCLK)
[I-Cache/ D-Cache, L2]	16KB/16KB I/D Cache and 16KB/16KB I/D TCM
[Floating Point/MAC]	VFP coprocessor support
[SDRAM]	128MB mDDR, 32bit; data bus with 266Mbs/pin double data rate
[Flash Availability]	64MB~4GB of Nand Flash optional
<b>Connectivity</b>	
[UART]	4-ch: Uart0/1: 4-wire(TX/RX/RTS/CTS);uart2/3: 2-wire(TX/RX)
[Slow IrDA/ Fast IrDA]	FIR up to 4Mbps, IrDA 1.1, multiplex with UART
[SPI, # of Chip Selects]	1-ch
[I2C Bus]	1-ch,Multi-Master
[Can Bus]	No
[USB Host Ports]	1-ch, OHCI 1.0/USB 1.1
[USB Device Port]	1-ch USB OTG 2.0 High Speed
[Ethernet Interface]	10/100MB high performance Ethernet(LAN9220/LAN9221)
[SD/MMC Interface]	2-ch MMC4.0/SDMC2.0/SDIO 1.0
<b>Interactivity</b>	

[LCD I/F (Resolution,Depth)]	Max 1024x768, 18bit
[Touch Panel Controller]	4-wire, Resistive
[2D/3D Graphics]	2D/3D Graphics Accelerator,OpenGL ES 2.0,D3D Mobile; Multi Format Codec
[Video Performance(Res@fps)]	Codec H.264 up to 30fps@SD
[Video/HDMI/DVI Output]	2-ch Composite Video Output
[Video/Camera Input]	ITU-R 601/ITU-R 656,8bit,up to 4096x4096 in YCbCr 4:2:2 format
[Audio I/F]	I2S of WM8731 codec, Line In/Line Out/Mic
[RTC]	CPU internal, external backup battery input
[Watchdog]	CPU internal
<b>Extendability</b>	
[Expansion Bus Add/Data]	8-Bit Address/8-Bit Data Local Bus
[GPIO]	30+ ch,mux
[Interrupt Source]	3-ch External Interrupt Source
[Timer/PWM]	5-ch 32bit Timers, with 1 PWM output
[ADC/DAC]	4-ch ADC mux with Touch Panel Controller