SOM-A9315

SOM with Cirrus[®] EP9315 Processor + Windows[®] CE 5.0



CIRRUS LOGIC: N Windows

Features

- Cirrus[®] ARM9 based EP9315 + Microsoft Windows[®] CE 5.0
- Compatible w/ Advantech RISC SOM (RTX) architecture
- Graphic 2D accelerator and H/W floating point accelerator
- Rich I/O interface : CAN 2.0B, LAN, USB, COM, hotkey, DIO, audio, PCMCIA
- Multi-storage solution: IDE, USB, PCMCIA
- Complete SW support package with SDK for easy application development
- Supports Adobe® Flash® Player 7.0 & Java virtual machine per project based

Introduction

ARM9 base, IO intensive, best Performance/Cost, OS-Ready System On Module

With RISC SOM RTX form factor, SOM-A9315 Series integrates Cirrus EP9315 ARM9 based low power SoC, NXP CAN solution & Oxford multi-COMs solution chips to offer customers excellent fanless performance & rich I/O expansion on a System On Module.

Design-in Package Ensures Efficient, Low-Risk Project Evaluation

The comprehensive design-in package provides developers with a complete design-in kit, detailed design guide documentation, as well as the Windows CE Board Support Package (BSP) by request, and a set of testing tools for custom target platform image building.

Three support mechanisms are included in the design-in package:

Design-in Kit: Provides developers with a complete design-in suite kit for application evaluation/development and Customer Solution Board (CSB) development **LCD Kit:** Certified LCD kit for customers to test LCD performance.

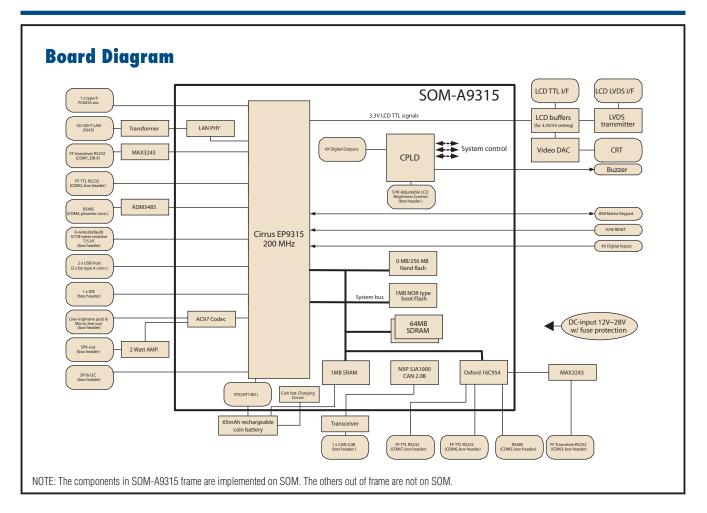
Design-in Zone: Assists customers with their own CSB development by providing front-to-end technical support (http://risc-designin.advantech.com.tw/)

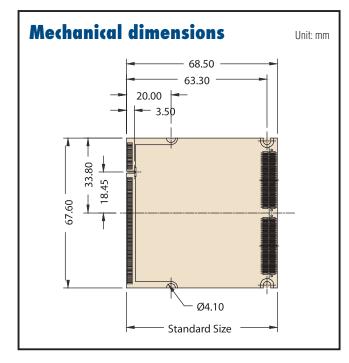
Specifications

S/W	0S	Windows CE 5.0 English professional plus ver.
	CPU	Cirrus ARM9 based EP9315 200 MHz
	Math Engine	H/W floating point accelerator from EP9315
	SDRAM	32 MB/64 MB (optional)
	Boot Flash	1 MB NOR flash (for bootloader only)
	Storage Flash	Sandisk flash 0 MB (default)/256 MB
Kanal	SRAM	0 MB/1 MB (default)
Kernel	RTC	HT1381
	Watchdog	EP9315 internal
	Ť	Normal & Idle mode. When in idle mode, system
	Power Management	turns off the LCD back light only. Wakeup by event
	-	trigger (T/S, USB)
	Reset	H/W reset (No SW reset)
1/0	ARM Bus	N.A.
	(CPU system bus)	
	CAN	1 x CAN 2.0b by NXP SJA1000
	COM	7 X
	LAN	1 x 10/100-T
	USB	2 x USB host ports (No USB client)
	PS/2	N.A.
	PCI	N.A.
	GPIO	3 x 3.3 V TTL level (One could be interrupt source)
	DI/DO	4 x 3.3 V TTL level DI & 4 x 3.3 V TTL level DO

1/0	Hotkey/Matrix	8 x 8 (64 pins max.)
	keypad	3.3 V TTL level
	CF/PCMCIA	1 x (system default boot port)
	IDE	1 x (ATA/ATAPI compliant. bootable I/F)
	12C	design reserved
	SPI	design reserved
	Touch Screen I/F	4 (default)/5/7/8 wire resistive type I/F
Multimedia	Graphic Controller	EP9315 internal 18-bits graphic controller
	Graphic Accelerator	Supports 2D graphic accelerator by EP9315 internal
	CRT out	N.A. (could be implemented on CSB)
	LVDS out	N.A. (could be implemented on CSB)
	LCD out	3.3 V TTL level 18 bits
	Resolution Support	320 x 240 ~ 800 x 600 (default)
	Inverter Control	SW configurable LCD back light on/off and
		brightness control I/F
	Audio	AC97 Codec on board
	Buzzer Control	Yes
Others	DC-input	3.3 V + -3 %, 5.0 V + -3 %
	Form Factor	Advantech RISC SOM RTX form factor
	Board Size	68 x 68 x 6.8 mm (2.67" x 2.67" x 0.27")
		~ 2.5 watt (not including the CSB and any
	Power Comsuption	peripherals, SOM only. And no speical AP running.)
	Temperature	Operation : 0° C ~ 60° C (-40° C/-20° C ~ 80/85° C as option)
	Certification	CE/FCC

SOM-A9315





Ordering Information

SOM-A9315 Design-in Package

Part No.	Description
SOM-ADK9315-B00E (SOM & carrier board kit)	SOM-A9315 Series design-in kit. (must order before purchase SOM only) (** without panel bundle, please order designated LCD kit)
LCD-A104-TTS1-0 (Optional item)	10.4" TFT SVGA LCD kit. The kit includes 4-wire resistive T/S, inverter & related cables. (Advantech reference image default supported)

SOM-A9315 Series SOM (Module only)

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Part No. Descrip	ition
	rus EP9315 200 MHz, 64 MB SDRAM, 1 MB CAN 2.0b, 7 COMs & Win CE 5.0
Order your own the recon reconfigured SOM table to Contact	velopers have evaluated the kit and decided to econfigured sample run SOM, they can check nfiguration options in the above specification order their customized SOM-A9315 product. local Advantech sales or distributor for uration requests.

Packing List

Bulk packing with 22 pcs in one box

SOM only comes with the bootloader pre-installed and WinCE professional plus version license sticker

**Sample image and related documentation included with Design-in kit only.