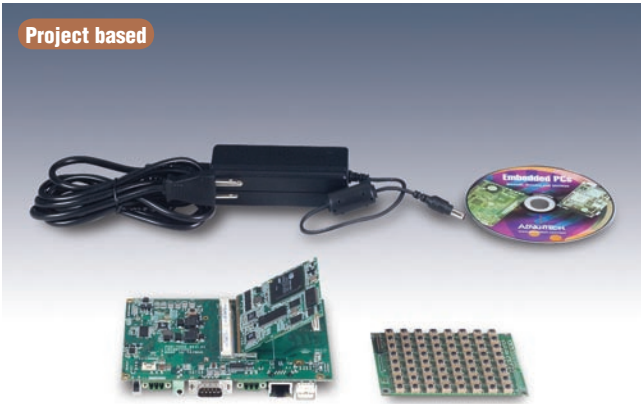


SOM-ADK9315 Evaluation Kit

OS-ready Cirrus® EP9315 +
Windows® CE 5.0

Project based



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, RS232, RS485, 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 on project basis



Introduction

Evaluation kit based on Cirrus EP9315 with Windows CE 5.0 makes project evaluation easy and risk-free

The SOM-ADK9315 evaluation kit integrates certified functional peripherals using Windows CE 5.0, offering efficient development and risk-free implementation from the very beginning. This evaluation kit includes SOM-A9315 with carrier board, matrix keypad, power adaptor, testing fixture, related cables and software support CD. There is also an optional 10.4" LCD kit for testing LCD performance. Advantech also offers a rich software support package for customers to evaluate, including: reference boot loader, reference image, upgrade utility, testing utility, platform setting utility, etc.

Design-in Zone Membership

Advantech has established a dedicated website portal, Design-in Zone, to assist customer development by providing direct and professional technical support in the most efficient way. The home page is located at <http://risc-designin.advantech.com.tw>. Through the design-in zone, customers can get the most up-to-date technical support documentation and front-to-end technical support.

Specifications

S/W	O.S.	Windows CE 5.0 English professional plus ver.	
	GUI Firmware	Adobe Flash player 7.0 & Java virtual machine on project basis	
Kernel	Board Architecture	SOM-A9315 with Advantech reference carrier board	
	CPU	Cirrus ARM9 base EP9315 200 MHz	
	Math Engine	H/W floating point accelerator from EP9315	
	SDRAM	64 MB	
	Boot Flash	1 MB NOR flash for bootloader only	
	Storage Flash	0 MB (system can boot from IDE Hard Disk or CF memory card: CF/PCMCIA slot)	
	SRAM	1 MB	
	Graphic Chip	EP9315 internal 18-bits LCD controller	
	RTC	HT1381	
	Watchdog	EP9315 internal	
	Power Management	Normal & Idle mode. Idle mode: turn off the LCD back light only. Wakeup by event trigger (T/S, USB mouse)	
	Reset	H/W reset (No SW reset)	
	I/O	CAN	1 x CAN 2.0B through NXP SJA1000 by box header
		COM	7 x COM ports : 5 x RS232, 2 x RS485
LAN		1 x 10/100-T by RJ45	
USB		2 x USB host ports (No USB client)	
DI/DO		4 x TTL level DI & 4 x TTL level DO by box header	
Hotkey/Matrix Keypad		8 x 8 (64 pins max.) matrix keypad w/ power pin on the box header	
PCMCIA		1 x type II (supports memory & IO mode, bootable I/F)	
IDE		1 x by box header (ATA/ATAPI compliant, bootable I/F)	
I2C		1 x by box header (reserved)	
SPI		1 x by box header (reserved)	
Multimedia	Touchscreen	4-wire resistive type by box header (5/7/8 on project basis)	
	Graphic Accelerator	Supports 2D graphic accelerator by EP9315	
	CRT out	Yes (by box header)	
	LVDS out	1 channel (image default support AUO 10.4" LCD, Advantech LCD kit P/N: LCD-A104-TTS1-0)	
	LCD out	18 bits TTL level	
	Audio	Line-out by phone jack; Line-in, Mic-in & SPK-out by box header. SPK w/ 2-watt audio AMP support (the kit include 2 x 2 watt speakers)	
	Buzzer	Yes	

