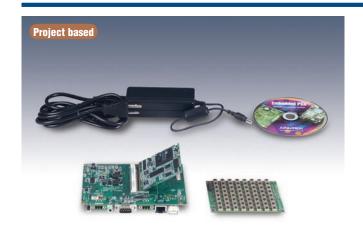
SOM-ADK9315 Evaluation Kit

OS-ready Cirrus® EP9315 + Windows® CE 5.0



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.

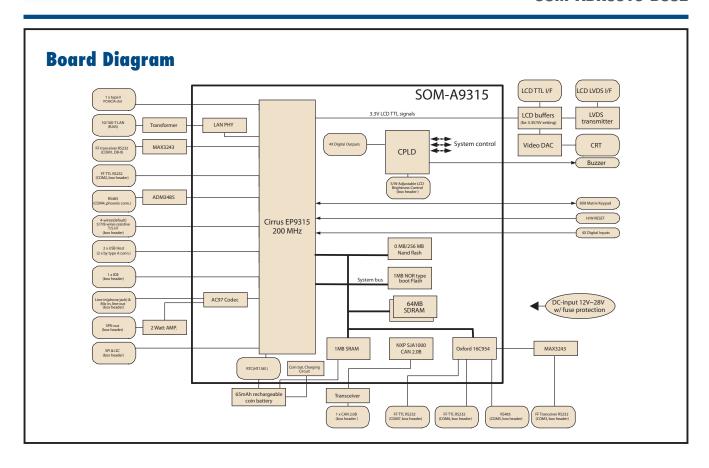
Design-in Zone Membership

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

| CAM | 0.S. | Windows CE 5.0 English professional plus ver. |
|------------|----------------------|--|
| S/W | GUI Firmware | Adobe Flash player 7.0 & Java virtual machine on project basis |
| | 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) |
| Kernel | SRAM | 1 MB |
| | Graphic Chip | EP9315 internal 18-bits LCD controller |
| | RTC | HT1381 |
| | Watchdog | EP9315 internal |
| | Power Management | Normal & Idle mode. |
| | Ů | Idle mode: turn off the LCD back light only. Wakeup by event trigger (T/S, USB mouse) |
| | Reset | H/W reset (No SW reset) |
| | 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/D0 | 4 x TTL level DI & 4 x TTL level DO by box header |
| 1/0 | 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) |
| | 120 | 1 x by box header (reserved) |
| | SPI | 1 x by box header (reserved) |
| | 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) |
| Maddanada | LVDS out | 1 channel (image default support AUO 10.4" LCD, Advantech LCD kit P/N: LCD-A104-TTS1-0) |
| Multimedia | LCD out | 18 bits TTL level |
| | Audio | Line-out by phone jack; Line-in, Mic-in & SPK-out by box header. |
| | Buzzer | SPK w/ 2-watt audio AMP support (the kit include 2 x 2 watt speakers) Yes |
| | DUZZEI | 162 |

SOM-ADK9315-B00E



| | Power Adaptor | 110 V/220 V AC/DC adaptor w/ 19 V DC-output |
|--------|------------------------|---|
| Power | Carrier board DC-input | 12 V ~ 28 V |
| Powel | Coin-battery | Rechargeable Li-ion 3 V 65 mAh coin-battery for RTC (charging circuit on SOM) |
| | Power Switch | Slide type |
| | Carrier Board Size | 102 mm x 146 mm (4" x 5.7") |
| Others | Temperature | operation 0° C ~ 60° C; -40° C/-20° C ~ 80° C/85° C as option (SOM w/ CSB) |
| | Certification | CE/FCC |

Packing List

| _ | |
|--------------|---|
| Item | Description |
| SOM-ADK9315 | Includes SOM-A9315 with carrier board, AC/DC power adaptor, 2 x 2 watt speakers, matrix keypad, CF card (image inside), CF-to-PCMCIA adaptor and related cables |
| Testing Tool | Includes RS232 loop-back fixture, expansion conn. cable, male type phoenix conn. |
| Support CD | Includes datasheet, user manual, upgrade utility, testing utility, SDK, design-in zone guide |
| License | Microsoft Windows CE end-user license agreement (image installed in CF memory card) |

Ordering Information

| | Part No. | Description |
|--|----------------------------------|---|
| | SOM-ADK9315-B00E (Must Item) | Evaluation kit for Cirrus EP9315 w/Windows CE 5.0, 64 MB SDRAM, 1 MB boot flash, 1 MB SRAM |
| | LCD-A104-TTS1-0 (Option item) | 10.4" LCD kit TFT 800 x 600 include 4-wire T/S, inverter and related cables |

- * SOM-A9315 graphic-output performance can be checked without LCD kit via CRT output port on carrier board
- * SOM-ADK9315 image default supports LCD-A104-TTS1-0.

10 Placement

