

君正 WinCE 系统资源指南

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北京君正集成电路有限公司
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Release history

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Dec. 2007	1.0	First release

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1 概述

Jz4730 和 Jz4740 是北京君正推出的两款高性能低功耗的 MIPS 内核 32 位嵌入式处理器，主频 350MHz，支持 MMU，包括 16KB 的 I-Cache 和 16KB 的 D-Cache，同时还集成了大量的外围设备。在君正处理器平台上可以运行 Linux、WinCE 和 uCOS-II 等操作系统，适合用来开发个人数字助理（PDA）、便携媒体播放器（PMP）、卫星导航仪（GPS）、数码学习机/电子辞典、数码像框、电子书和智能手机等多媒体和通信设备。

北京君正提供完整的 WinCE 系统支持，帮助用户在君正 Jz 系列处理器平台上快速完成产品开发。为方便用户在设计过程中快速检索 WinCE 系统下的各种可用资源，本文将详细列出目前已支持的基于 WinCE 开发的各种资源，包括引导程序，和 WinCE 系统核心、设备驱动程序支持、文件系统等。

2 系统资源列表

表格 1 Boot Loader Resource (Version 2.0)

Features	Status
Serial console and download	√
LCD driver	√
Ethernet download	√
I2C driver	√
Boot WinCE kernel	√
Boot binary program	√
NOR flash driver	√
NAND flash driver	√
MMC/SD driver	
– Boot WinCE Kernel	√
– Update WinCE Kernel	√
– Update LOGO	√
– Update Bootloader	√
UDC driver	×
Boot from NOR flash	√
Boot from NAND flash (Hamming/RS ECC support)	√

表格 2 OEM Adaptation Layer (OAL) Resource

Features	Status
Boot arguments	√
Cache	√
Ethernet driver	√
Flash	√
Interrupt	√
Interrupt latency timing	×
I/O	√
IOCTRL (Optional are NOT supported)	√
KITL	√
Log	√
Memory	√
PCI	×
Profiler	×
Real-time clock	√

Timer	√

表格 3 WinCE Resource

Features	Status	
➤ Device Drivers		
Audio driver		
- JZ4740 Internal Audio Codec(I ² S Master Mode)	√	
- UCB1400(AC97)	√	
- CS42L51(I ² S Slave Mode)	√	
- Tlv320aic23(I ² S Slave Mode)	√	
- AK4642(I ² S Master Mode)	√	
Battery Driver		
- JZ4740 Internal ADC	√	
- UCB1400	√	
- AK4182A	√	
Bluetooth Drivers	x	
Direct3D Mobile Display Drivers	x	
DirectDraw Display Drivers	√	
Display Drivers	√	
DVD-Video Render	x	
Flash Media Drivers		
- SLC NAND Flash	√	
- MLC NAND Flash	√	
HID Drivers	√	
IEEE 1394 Drivers	X	
Keyboard Drivers	√	
Network Driver	√	
Notification LED Drivers	X	
Parallel Port Drivers	X	
PC Card Drivers	X	
PCI Bus Drivers	X	
Printer Drivers	X	
Secure Digital Card Drivers		
- SD v1.01	√	
- SD v2.00	√	
Serial Port Drivers	√	
Smart Card Drivers	X	
Touch Screen Drivers		
- JZ4740 Internal TS Controller		
- UCB1400	√	

- AK4182A	√	
USB Function Drivers		
- USB Serial	X	
- USB Mass Storage	√	
- USB RNDIS	X	
USB Host Drivers		
I2C Drivers	√	
Camera Drivers		
- OV7649	√	
- OV9657	√	
SPI Driver		
IDE Drivers	X	
External RTC Drivers		
- PCF8563	√	
PCMCIA/CF card driver		
WIFI driver		
- Marvell SDIO-WiFi	√	
- Marvell SPI-WiFi	X	
- Atheros SDIO-WiFi	√	
- Atheros SPI-WiFi	X	
- VIA USB-WiFi	X	
Slow IrDA driver	X	
➤ Power Management		
Power Off Mode(D4)	√	
Hibernate Mode(D3)	-	
User Idle Mode(D2)	√	
System Idle Mode(D1)	√	
Full On Mode(D0)	√	
➤ Middle Ware		
Navigation		
- CARELAND	√	
- MapBar	√	
Handwriting		
- SinoVoice	√	
Text-To-Speech(TTS)		
- SinoVoice	√	
Automated Speech Recognition(ASR)		
- SinoVoice	√	