

# *Liod270 Introduction*

## *Liod270 Teaching Development Platform*

Liod270 based on Intel Xscale PXA270 embedded microprocessor, its highest basic frequency may reach 520MHz, can run Linux 2.4.21 and Linux 2.6.11 operating systems, supports GUI embedded type graphical user interface, such as Tiny-X, QT/E and so on, provides whole drive and application procedure. It also supports the latest Windows CE 5.0.NET / Windows CE 6.0 operating system. It has provided the large choice space for teaching of university.

The system is formed with module and extender board, connection resources of the extender board is rich and may used for school teaching experiment, it has detailed embedded type development theory instruction book and the experimental hands-on instruction book; The core board may used by teacher for Scientific research directly. PXA270 has joined Wireless MMX technology, greatly promoted the multimedia processing ability; PXA270 has also joined Intel SpeedStep dynamic power source management technology, reduce mobile equipment power loss furthest under the guarantee of CPU performance. It be suitable not only for teaching platform of embedded software course in specialized computer, electron, correspondence, software and so on, but also for referenced platform used in vehicle-carry entertainment, industry control, portable equipment, medical instrument merchant and the scientific research



## Technical Spec. of Lioid270

No.	Name (Equipment /Construction)	Main parameter and description	Description
<b>Hardware</b>	<b>Technical parameter of core board</b>		
	CPU	Intel XScale PXA270	520MHz
	SDRAM	64M Byte	
	FLASH	32M Byte	
	Media accelerate	2700G	Option
	Power Manager	Nation Sem	
	CPLD	1	
	Size	65mm*95mm	
	<b>Technical parameter of daughter board</b>		
	Display	6.4# TFT LCD Display	640*480
	Touch Screen	UCB1400BE	Four Line
	JTAG	20 Pin	
	USB USB Host	2	
	USB Client	1	
	Ethernet	1	10M/100M BaseT
	UART	1 FFUART, 1 BlueTooth, 1 IrDA	
	IrDA	1	
	SIM Interface	1	
	CF Interface	1	Support CF storage Card, CF Wireless Lan Card
	MMC/SD Interface	1	Support MMC/SD Storage card
	RTC	1	
	Audio	3	Audio In/Out
	Extended interface	110 Pin	
	LED	3	
	Keyboard	5	
	Battery	3000mAH	
	Size	145mm*190mm	
<b>Software</b>	<b>Linux &amp; Windows CE Operation system</b>		

**Embedded Linux operation system**

Bootloader		Source code
Kernel	linux 2.4.21	Source code
Filesystem	Jffs2	Source code
GUI	QT/Tiny-X	Source code
Device Drivers	Audio	Source code
	LCD	Source code
	Touch screen	Source code
	USB Host	Source code
	CF	Source code
	MMC/SD	Source code
	IdDA	Source code
	Ethernet	Source code
	UART	Source code
	Camera	Source code
RTC	Source code	
Tool Chain	ARM-Linux-GCC	Source code
Debug Tool	GDB for PXA270	Source code
Download Tool	JFLASH for PXA270	Source code

**Windows CE.NET 5.0 BSP/ Windows CE.NET 6.0**

Board Support Package	BootLoader	Source code
	Audio	Source code
	LCD	Source code
	Touch screen	Source code
	USB Host	Source code
	USB Slave	Source code
	CF	Source code
	MMC/SD	Source code
	IrDA	Source code
	Ethernet	Source code
	UART	Source code
	RTC	Source code
JFLASH	JFLASH for PXA270	Source code
Sync Tool	Active Sync 4.2	Source code
Download Tool	Eshell	Source code
Media Player		Source code