



PXA270 CARD ENGINE

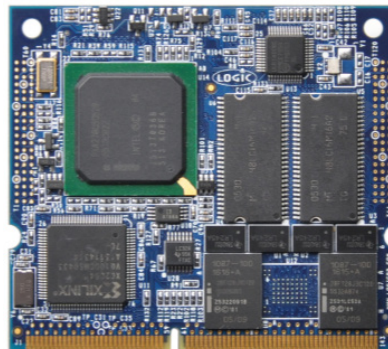
System on Module

The PXA270 Card Engine is a compact, product-ready hardware and software solution that fast forwards your embedded product design.

The PXA270 Card Engine is a complete System on Module (SOM) that offers essential features for handheld and embedded networking applications. Use of custom baseboards makes the Card Engine the ideal foundation for OEMs developing handheld and compact products. The Card Engine provides a common reference pin-out on its expansion connectors, which enables easy scalability to next generation microprocessor Card Engines when new functionality or performance is required.

Application development is performed right on the product-ready PXA270 Card Engine and software Board Support Packages (BSPs), which enables you to seamlessly transfer your application code and hardware into production.

The PXA270 Card Engine is ideal for applications in the medical, point-of-sale, industrial, and security markets. From patient monitoring and medical imaging, to card payment terminals and bar code readers, to CCTV cameras and intruder alarms, the PXA270 Card Engine allows for powerful versatility and long-life products.



Product Features

PXA270 CARD ENGINE HIGHLIGHTS

- Product-ready System on Module with the Marvell PXA270 Applications Processor running at 416 or 520 MHz
- Compact form factor 60.2 mm x 67.8 mm x 4.4 mm
- Long product lifecycle
- 0 °C to 70 °C (commercial temp) or -25 °C to 85 °C (extended temp)
- RoHS Compliant

PXA270 ZOOM™ SDK FEATURES

- Application baseboard
- PXA270 Card Engine (CENGPXA270-520-10-504HCR)
- Necessary accessories to immediately get up and running
- Kit available from Logic PD (SDK-PXA270-520-10-6432R)
- See Zoom™ SDK product brief for more information

PROCESSOR

- Marvell PXA270 Applications Processor running at 416 or 520 MHz

SDRAM MEMORY

- 64 MB SDRAM standard

FLASH MEMORY

- 32 or 64 MB NOR standard

DISPLAY

- Programmable color LCD controller
- Built-in driver supports up to 800x600 with 16-bit LCD interface

TOUCHSCREEN

- Integrated 4-wire touch screen controller

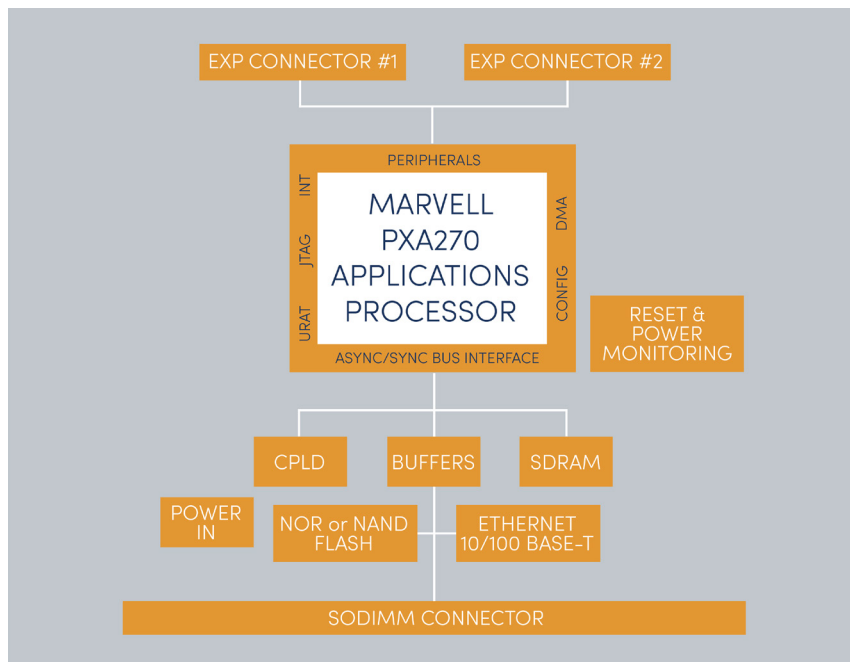
NETWORK SUPPORT

- 10/100 Base-T Ethernet controller for application/debug (SMSC LAN 91C111)

AUDIO

- AC97 audio codec

PXA270 Card Engine Block Diagram



PXA270 Card Engine Ordering Information

MODEL NUMBER ¹	SPEED (MHz)	SDRAM (MB)	NAND FLASH (MB)	NOR FLASH (MB)	TOUCH	AUDIO	ETHERNET	TEMP. (°C)
CENGPXA270-416-11-505EXR	416	64	0	64	Y	Y	-	-25°-85°
CENGPXA270-416-11-505HXR	416	64	0	64	Y	Y	Y	-25°-85°
CENGPXA270-520-11-504HCR	520	64	0	32	Y	Y	Y	0°-70°

NOTES:

1. Custom configurations are available by special order. Please contact Beacon EmbeddedWorks Sales for details.

PXA270 ZOOM™ SDK Ordering Information:

MODEL NUMBER	SOM CONFIGURATION	RECOMMENDED RESALE
SDK-PXA270-520-10-6432R	CENGPXA270-520-10-504HCR	\$499

NOTES:

1. The SDK contains a PXA270-10 Card Engine; quantities are limited.

PC CARD EXPANSION

- CompactFlash Type I card (memory mapped mode only)
- Smart Card, MMC/SD, dual PCMCIA interfaces

USB

- USB 2.0 full-speed host and device interface

SERIAL PORTS

- Three 16C550 compatible UARTs, two I2C

IrDA

- SIR supports up to 115.2 Kbps, multiplexed IrDA/Bluetooth

GPIO

- Programmable I/O depending on peripheral requirements

SOFTWARE

- LogicLoader™ (bootloader/monitor)
- Windows Embedded CE 5.0 BSP

MECHANICAL

- 60.2 mm wide x 67.8 mm long x 4.4 mm high

ROHS COMPLIANT