



CerfBoard 270

Overview

Intrinsyc Software's CerfBoard 270 is a high-performance, low power design that is a perfect starting point for developing embedded and handheld devices. Begin your development right out of the box with a pre-installed Board Support Package for Windows® Embedded CE 5.0/6.0. The board also has an optional LCD mounted on a sleek plexiglass stand – perfect for showing off applications. The CerfBoard 270 is RoHS (Restriction of Hazardous Materials) Compliant.



Features

The CerfBoard 270 is based on the Intel® XScale® PXA270 application processor which provides peak performance. The CerfBoard 270 incorporates SD/MMC, 2 CompactFlash® connectors that can be used to add Bluetooth, Wireless WAN support or additional memory. It also includes 10/100 Ethernet, 2 Serial Ports (COM1 – full serial RS232 support, COM2 – 3wire RS232 for debug), flexible digital I/O, a JTAG connector, dual stacked USB 2.0 host, USB 1.1 client & host support, a VGA LCD connector, a 4 wire resistive touch screen connector, and audio connectors (in/out).

Board Support Packages

CerfBoard 270 comes with flexible Board Support Packages that are pre-installed on delivery.

Windows® Embedded CE 5.0/6.0

A choice of Windows® Embedded CE 5.0 or 6.0 are available, allowing both the operating system and applications to be developed using Microsoft® Platform Builder™ or Visual Studio 2005 depending on OS, and Visual Basic for a more integrated and feature rich environment. The new Windows® Embedded CE 6.0 kernel architecture provides support for up to 32,000 processes, each with 2Gb of virtual memory space.

Benefits

• Customized Solutions

Intrinsyc Software's team delivers customized solutions and provides award winning system integration and product development services ranging from concept design and prototyping to production

• Reduce risks, costs and time to market

Intrinsyc helps you reduce risk, costs and time-to-market through designs created and implemented by an experienced engineering team that understands embedded processor design and software.

Intrinsyc designs are based on the flexible Intel® XScale® reference platform and provides the ideal environment for creating high-end low power wireless or embedded solutions

Deliver successful solutions to market by leveraging Intrinsyc Software's years of product development expertise

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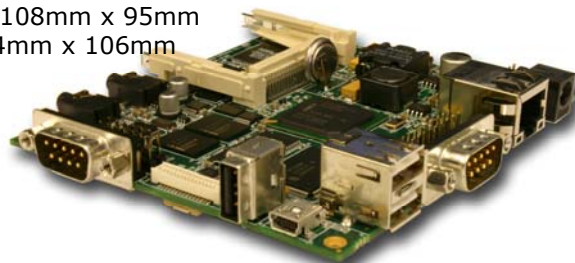
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All specifications are subject to change without notice.

Specifications

- Processor – PXA270 CPU, with scalable core voltage, and up to 524 MHz core speed (416 MHz standard)
- Memory – 64MB SDRAM, with low-power sleep mode (128MB option available), 32 MB Intel StrataFlash™
- LCD Optrex & Sharp displays (*optional*)
LCD backlight inverter Microsemi LXM1623-05-41
- SD/MMC connector
- 2 CompactFlash slots – supports Type I and II cards, including IBM microdrive, memory cards, barcode readers, wireless modems, WiFi connectivity and Bluetooth cards.
- Data Connectivity
 - Dual USB Host 2.0 with high-speed capability (driver to be added to BSP in later release)
 - USB 1.1 Client and Host
 - 10/100 Ethernet
 - Serial ports - debug and full-function, with DB9 connectors
 - Digital I/O connector on 2x10x100 connector
- Expansion connector – 16 bit data bus, address bus, camera interface, 4-wire UART, I2C
- Stereo out, mic in audio connectors
- Touch panel connector
- Battery-backed RTC on I2C
- EEPROM and FRAM on I2C
- CPU and CPLD JTAG connectors
- Ability to run from 5V to 12V input
- All peripherals have power control built-in, or have an external power switch with appropriate protection devices. (power control driver to be added to BSP in later release)
- Dimensions:
 - PCB without connectors 108mm x 95mm
 - PCB with connectors 114mm x 106mm (approximate)



Configurations:

- CerfBoard 270 - approximately 4.5" x 4.20" (as shown above)
- 6v Power Supply, cabling, ESD wrist strap
- Board Support Package – Windows® Embedded CE 5.0/6.0
- Development software CD that includes
 - Hardware and software documentation
 - Board Support Package – a binary release of Intrinsyc drivers and components. Provides the ability to install new applications and create images for various applications
- Intrinsyc Software license agreement & hardware warranty card.
- Optional Display with Plexiglass stand

