



CerfPod 255SE Developer's Kit for Windows CE

Intrinsyc Software's Development Kit for Intel® PXA255 Processor Based Designs



Benefits

- Flexible XScale® PXA255-processor reference platform – Ideal environment for creating mobile, wireless or internet ready embedded solutions.
- Reduced development risk and cost – Designed by an experienced team of engineers that understand embedded processor design and software.
- Faster time to market. The CerfPod 255SE Developer's Kit provides the utmost in flexibility by allowing you to select just a single board computer alone, or with a choice of LCDs, for your final low to high-volume production-based designs.
- Intrinsyc Software can easily customize the CerfPod design to fit your needs
- Backed by Intrinsyc Software's years of product development expertise helping customers deliver successful solutions to market.

Overview

Intrinsyc Software's Cerf™Pod 255SE is a full-featured, flexible platform that is an ideal starting point for your next generation, mobile, wireless device or embedded solution.

This multi-function high performance design platform is an ideal starting point for:

- Kiosks implementations
- Medical and measurement devices
- Enterprise handheld devices
- Video conferencing applications
- Web tablet devices

Features

The CerfPod 255SE is based on the Intel XScale® PXA255 processor (200 MHz and 400 MHz options available). Microsoft® Windows® CE version 4.2 is supported out of the box (Windows CE 5.0 available Feb 2005).

The CerfPod 255SE Developer's Kit includes a high contrast 256K color 640x480 6.4" diagonal backlit VGA touch screen LCD display (optional or 10.4" display available) and a fully accessible printed circuit board with , 64 MB SDRAM, 32 MB Flash memory and integrated audio codec.

The CerfPod 255SE circuit board provides access to a host of input and output connectors including; CompactFlash®, Secure Digital™ / MultiMedia Card, dual USB Host type A, (optional USB OTG is also available), 3 serial ports (COM1 – full serial RS-232, COM2 – RS-485/422, COM3 – 3-wire RS-232 for debug) and an Expansion connector. Connect your own add-on circuit boards via the Expansion connector.

Customizable

For customized solutions Intrinsyc Software can provide award winning systems integration and product development services ranging from concept design and prototyping through to pre-production and production. Intrinsyc Software's team is focused on delivering solutions that help you reduce risk, cost and time-to-market.

Locations

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All specifications are subject to change without notice.

Cerf™Pod 255SE Specifications

- Processor – Intel PXA255 32-bit processor using Intel's XScale Micro-architecture (200 MHz and 400 MHz population options)
- Memory – 16 MB Flash with 32 MB SDRAM (100 MHz) or 32 MB Flash with 64 MB SDRAM (100 MHz)
- Flash Programming – JTAG support through header, CE image download through Ethernet using Platform Builder 4.0
- Data Connectivity
 - Ethernet Support: 10/100 Ethernet
 - Dual USB 2.0 – Type A (host) ports, single USB OTG port (option)
 - Serial Support: Full RS-232 on COM1, RS-485/422 on COM2, 3-wire RS-32 on COM3 for debug (Population options for RS-485/422 available for COM1 and RS-232 for COM2)
- CompactFlash Slot – supports Type I and II cards, including IBM microdrive, memory cards, barcode readers, wireless modems, and Bluetooth cards
- Secure Digital / MultiMedia Card Slot – supports MMC cards for additional memory.
- Expansion Connector – to allow additional hardware to be developed and added without a main board redesign. (For example: the addition of a second Ethernet port or communication interface)
- Audio Codec – supports touch screen interface, 8 GPIO, 4 Analog inputs (10-bit), microphone level input channel, line level input channel and line-level output channel
- I/O – up to 15 digital lines available (additional off Codec)
- Size – 3.5" x 5.5" (89mm x 140mm)
- Power – 5VDC regulated or 7VDC-16VDC unregulated, approx. 1.2A with no CompactFlash device, backlight on and passive screen; peak approx. 1.6A (Note: power draw will depend on chosen display and CompactFlash device)
- Battery Backed Real-Time Clock – retains time of day with dedicated battery

Each CerfPod 270M Multimedia Developer's Kit Includes:

- CPU board
- 6.4" diagonal VGA LCD TFT backlit display (optional 10.4" available)
- Plexiglas mounting stand
- Power supply, cabling, and ESD wrist-strap
- Development software CD that includes:
 - Board Support Package – a binary release of Intrinsyc drivers and components for various applications for Microsoft® Windows® CE 5.0
 - Application Development – a Software Development Kit (SDK) that supports application development in Microsoft® Embedded Visual C++® or Microsoft® Visual Studio®
 - Microsoft® ActiveSync®
 - Bootloader – a pre configured bootloader used to manage Flash memory and device configuration
 - Support for IBM J9 Java Virtual Machine (JVM) – as an IBM partner, Intrinsyc offers support for the J9 JVM and Services Management Framework (SMF) on our reference platforms
- One Click-Wrap developer end user license and documentation
- One pre-loaded Microsoft® Windows® CE 5.0 run-time license
- Hardware and software documentation
- Bronze level support
- Intrinsyc Software License Agreement



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For more information, visit Intrinsyc Software's website at www.intrinsyc.com
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