INTRINSYC

CerfPod 270M Multimedia Developer's Kit

Intrinsyc & Intel Development Kit for Intel® PXA270 Processor and Intel® 2700G Multimedia Accelerator Based Designs

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.

Benefits

*   Flexible XScale® multi-media reference platform – Ideal environment for creating high-end mobile, wireless or embedded solutions.

*   Intrinsyc Software's 2nd generation Intel® PXA270, 2700G Multimedia Accelerator reference design.

*   Reduced development risk and
    cost – Designed by an experienced team of engineers that understand embedded processor design and software.

*   Backed by Intrinsyc Software's years of product development expertise helping customers deliver successful solutions to market.

:: Overview

Intrinsyc Software's Cerf™Pod 270M was designed in collaboration with Intel®, and is a full-featured, flexible platform that is an ideal starting point for your next generation, mobile, wireless device or embedded solution. Its superb multimedia capabilities (full VGA support with video and 3D graphics acceleration), connection options and board support package make it a comprehensive reference platform for creating your next generation high-end mobile, wireless or embedded solution. This multi-function high performance platform is an ideal starting point for:

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

:: Features

The CerfPod 270M is based on the newest Intel XScale® processor, the PXA270, and the Intel® 2700G Multimedia Accelerator. Microsoft® Windows® CE version 5.0 is supported out of the box. Support for Windows Mobile 2005 and I-Linux are on the product development roadmap for future releases.

The Intel PXA270 provides peak performance and power management and the energy conscious 2700G delivers hardware-accelerated video and graphics, enabling faster 2D and 3D graphics and high-quality video. The 2700G also brings dual display support to mobile and embedded devices and display resolutions of up to 1280x1024 at 16-bit color.

The CerfPod 270M includes a high contrast 256K color 640x480 10.4" touch screen LCD display and a fully accessible printed circuit board with 128MB SDRAM and 64MB of StrataFlash® memory. The CerfPod 270M circuit board provides access to a host of input and output connectors including; CompactFlash®, Secure Digital™ / MultiMedia Card, USB Host, USB Client, 3 RS232 serial, 10 Base-T Ethernet, GPIO, VGA and JTAG connectors. Connect your own add-on circuit boards via the Expansion connector. The CerfPod 270M board is also Bluetooth and IrDA ready.

❖ Cerf™Pod 270M Specifications

- Processor – Intel® PXA270 520MHz application processor.
- Graphics – Intel® 2700G multimedia accelerator with 32 MB of graphics memory (Mobile SDRAM) and integrated dual display support.
- Memory – 128MB Mobile SDRAM (100 MHz), 64MB Intel StrataFlash® Wireless memory.
- Display – High-contrast, 10.4" (diagonal), 256K color, 640X480 resolution, TFT LCD with CCFL backlighting and a resistive touch screen. Landscape and portrait modes.
- Data Connectivity
  - USB Support: USB 1.1 Host port with a standard Type A connector and client USB 1.1 Client port with a standard Type B connector.
  - Ethernet Support: 10 Base-T Ethernet.
  - Serial Support: Two full 9-wire RS232 serial ports and one 3-wire RS232 debug serial port.
- CompactFlash Slot – supports Type I and II cards, including IBM microdrive, memory cards, barcode readers, wireless modems, WiFi connectivity and Bluetooth cards.
- Secure Digital / MultiMedia Card Slot – supports MMC cards for additional memory.
- Expansion Connector – 16-bit Data Bus, partial Address Bus, Bus Control Signals, I2C and GPIO. Implement additional hardware without a main board redesign. (For example: the addition of a second Ethernet port or communication interface).
- Audio – Stereo headphone jack, microphone jack, line-in jack and on-board mono speaker.
- VGA Out – Connect to a VGA monitor or projector via a standard VGA DB15 connector.
- Power – 5V power supply included; input voltage of 100-240 VAC, 50-60Hz.
- Battery-Backed Real Time Clock
- Bluetooth ready – CerfPod 270M circuit board is designed to accept the Infineon Technologies ROK 104001 Bluetooth module (formerly available from Ericsson).
- IrDA ready – CerfPod 270M circuit board is designed for IrDA module placement.

❖ Each CerfPod 270M Multimedia Developer's Kit includes:

- CPU board
- 10.4" diagonal VGA LCD TFT backlit display
- 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
- 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
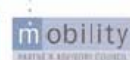
General Member of the Intel® Communications Alliance

For more information, visit Intrinsyc Software's website at www.intrinsyc.com
All specifications are subject to change without notice.