

CerfComm 250

A compact, low-cost communications-oriented daughter card used in developing CE .NET or Linux-based solutions on the CerfBoard 250

OVERVIEW

Cerf™Comm 250 is a flexible expansion option for Intrinsyc's XScale Cerf™Board. It provides an ideal method of adding new communications functionality to the CerfBoard in a compact, low-cost design.

FEATURES

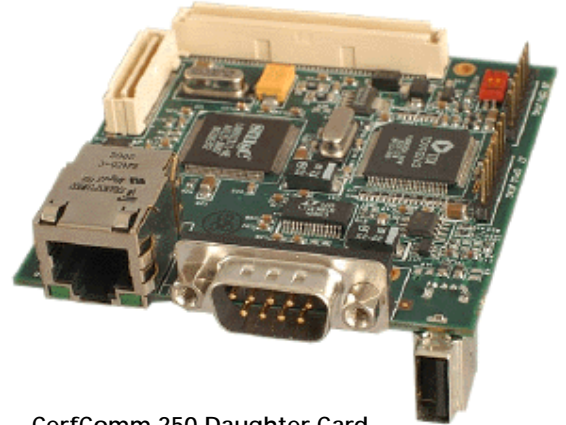
CerfComm 250 is a feature-rich, communications board compatible with the CerfBoard 250 running under both Linux and CE .NET operating systems. It comes equipped with one USB 2.0 Host controller, one 10/100 Ethernet port (in addition to one on the CerfBoard 250) and a 3-wire RS 232 serial debug port exposed from the CPU. The CerfComm 250 can be easily stacked either directly on the CerfBoard 250, or used in combination with the CerfBoard 250 and the Cerf™ IO 250 daughter card. This modular design and flexibility makes it easy to use the combination of cards and functions most needed. With a small footprint and compact design, it can also be easily enclosed and used off-the-shelf if needed.

APPLICATIONS

With USB Host and RS232 connectivity, the CerfComm 250 makes it easier to connect to a variety of peripherals that may be needed in certain applications, including cameras, card readers, mice and keyboards, among others. The addition of a second Ethernet port makes it easy to support bridging functions, such as bridging between a local LAN and the Internet or some other wide area network. It is also useful for supporting applications which require testing and use in a firewall configuration. The combination of the CerfBoard 250 and CerfComm 250 makes it the ideal way to get your applications to market faster.

NEED A CUSTOMIZED SOLUTION?

CerfComm 250 and the CerfBoard 250 can be coupled together and used in applications off-the-shelf, or they can be customized and integrated for the needs of your specific application. Intrinsyc provides vertical solutions and product development, including concept design, prototyping, preproduction and production. We have worked with hundreds of companies to make their intelligent devices a reality.



CerfComm 250 Daughter Card

BENEFITS

- » Provides faster time to market for applications requiring USB 2.0 Host, Ethernet or serial connectivity
- » Makes application integration and development easier, and improves ROI
- » Modular, stackable design enables new functionality without a main board redesign
- » Can be easily enclosed and designed for off-the-shelf use, minimizing project costs
- » Leverages the latest CerfBoard technology, working under both CE .NET and Linux environments
- » Backed by Intrinsyc's years of product development expertise in getting customers' solutions to market quickly

SPECIFICATIONS*

- » **CerfBoard Hardware Support** – compatible with Intrinsyc's CerfBoard 250 400 MHz platform
- » **CerfBoard Operating System Compatibility** – supported by CerfBoard 250 running either CE .NET or Linux operating systems
- » **Serial Connectivity**
 - » One RS232 (3-wire) serial debug port (utilizes full function UART on PXA250 processor and uses a DB9 connector type)
- » **USB Host Support**
 - » Supports USB 2.0 (note: low-speed (1.5 Mbps) and full-speed (12 Mbps) are supported; high-speed (480 Mbps) is currently not supported.)
 - » 16-bit data bus interface to CPU utilized
 - » Independent of CerfBoard 250 USB client
 - » Note: Some USB devices may require driver customization
- » **Ethernet Support**
 - » 10/100 Base-T Ethernet connectivity
 - » 16-bit data bus interface to CPU utilized (32-bit data bus utilized on the CerfBoard 250 Ethernet controller)
 - » Independent CerfBoard 250 Ethernet controller
- » **Board Size** – 2.72" x 2.73" (69.1mm x 69.3mm)
- » **Other Connectors** – CPU and CPLD standard 7-pin JTAG connectors provided
- » **Expansion Headers** – interfaces to the CerfBoard 250 40-pin and 100-pin expansion connectors
- » **Power** – +5V power to the CerfComm 250 is supplied by the CerfBoard 250. An on-board regulator supplies +3.3V to the CerfComm 250.

SOFTWARE

CerfComm 250 ships with support for Intrinsyc's latest I-Linux Distribution and I-BSP (Intrinsyc Board Support Package) for Windows CE .NET

EACH CERFCOMM 250 COMES WITH THE FOLLOWING:

(Note: CerfComm 250 requires the use of the 400MHz CerfBoard 250)

- » CerfComm 250 daughter card
- » Desktop mounting stands
- » Software CD
- » Getting Started Guide
- » HTML based documentation

OTHER PRODUCTS AVAILABLE FROM INTRINSYC

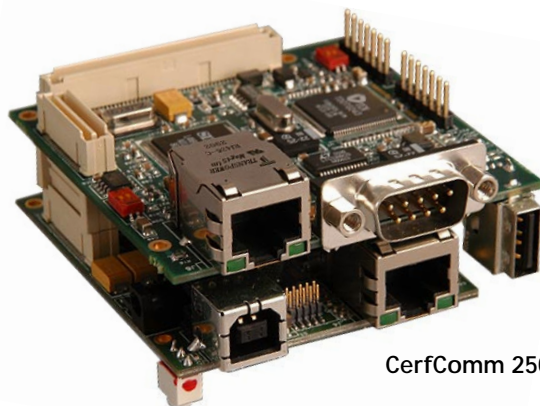
- » **Cerf™ Devices** – CerfCube, CerfCruiser, CerfBoard, CerfPod, Cerf IO, CerfComm.
- » **µDevices** – µPDA, µNET, µPCI, µEBX, µEngine.

OTHER CERF DAUGHTER CARDS AVAILABLE

- » Cerf IO 250
- » Cerf IrDA

For more information visit Intrinsyc's web site at www.intrinsyc.com.

**All specifications subject to change without notice.*



CerfComm 250 and CerfBoard



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