CF950 and CB950
Mobile Data Bridging

OXFORD SEMICONDUCTOR

Bluetooth

1394 Firewire

USB 2.0

Evolving Standards

CF/ PCMCIA -- or -- CB mPCI
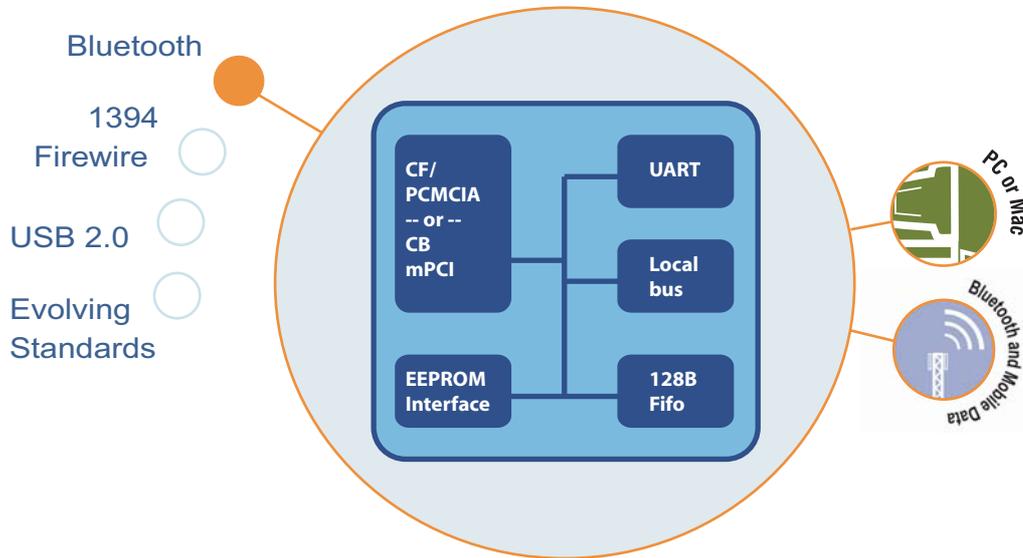
UART

Local bus

EEPROM Interface

128B Fifo

PC or Mac

Bluetooth and Mobile Data

The Oxford CF950 and CB950 integrate a high performance UART and bridge to PCMCIA, Compact Flash, Card Bus and Mini PCI. A comprehensive set of reference designs, drivers and applications notes target Mac, PC and PDA Bluetooth mobile data cards.

Key features

Connects directly to Bluetooth baseband and Mobile Data modules	Single Chip solution, supporting wide variety of GPRS, PDC, CDMA and Bluetooth Radio solutions
15Mbps UART with 128Byte buffer	Future proof performance with a battery friendly buffer
8bit local bus	Multi function designs, and GPIO flexibility
EEPROM personalisation interface	Personalisation utility (OXPROM)
Driver support for NT, XP, OSX	Simplifies product support

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Mobile Data

The advent of mobile data solutions is rapidly expanding the market for plug in cards for Mac, PC and Handheld computers. The CF and CB 950 provide a simple single chip solution for designers, and production engineers adapting radios to the wide variety of plug in cards and operating software platforms.

Two Chips Four Solutions

The CF950 provides 8 bit bus support for 3V PCMCIA and Compact Flash ports found in many PDAs and PC's. Optimised to save space the CF950 is available in a 48 TQFP and BGA package options

A 32bit bus on the CB950 supports embedded Mini PCI and Card Bus. Packaged in an ultra thin 100-pin TQFP it can be offered as a factory fit install or used for Mac and PC cards.

The Oxford UART

Both the CF and CB950 use Oxfords 950 UART technology found in several million serial ports today. The 950 has a deep FIFO structure with programmable fill level indicators, reducing CPU accesses and thus system power. The 550 compatible register set simplifies driver development and support.

Simple Personalisation

A external EEPROM enables card personality data to be added via a simple programming tool (OXPROM).

Reference Design and Driver support

A comprehensive set of reference designs, boards and schematics are available. Both the CF and CB950 can use existing 550 compatible UART drivers. Alternatively Oxford has driver code supporting a number of Microsoft and Apple platforms, allowing custom embedded driver support to be quickly developed.

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