BB16CF950+ UART ASIC

Chip Overview

Version: 1.0

BB16CF950+

An industry-standard compatible UART with a CompactFlash/PCMCIA interface and enhancements for Bluetooth designs.

1.1. Key Features

- Glueless interface to CompactFlash or 16-bit PC Card (PCMCIA) bus

- UART is register and functionally compatible with TL16C750

- Compatible with existing 16C750/550/450 device drivers

- Wide supply voltage range 3.0-5.5V

- Compliant with stringent CompactFlash I/O requirements

- Low-power design

- Configuration and CIS data is held in a small, cheap serial EEPROM

- UART enhancements:

  o 128-deep receive and transmit FIFOs

  o Readable FIFO levels and tuneable trigger levels improve device driver performance

  o Programmable "synchronisation factor" allows baud rates up to $f_{clock}/4$

  o Automatic transmitter/receiver enable control capability for RS485 half-duplex applications

  o Extensions to standard register set are implemented in a safe, easy-to-use way

- Added features for Bluetooth designs:

  - Glueless interface to CSR chips

  - Designed to support Bluetooth ICs from CSR's BlueCore range

  - Low-voltage interface pins eliminate the need for level-shifting circuitry

  - SPI mode for factory-programming of BlueCore flash memory

  - Power control can shut down power to Bluetooth circuitry when not in use

  - Automatic reset generation after Bluetooth power-up

Version History

Version	Date	Author	Checked By	Comments
1.0	29/10/02	SE	-	Version 1