

### Core Overview

The UART core with Avalon® interface implements a method to communicate serial character streams between an embedded system on an Altera® FPGA and an external device. The core implements the RS-232 protocol timing, and provides adjustable baud rate, parity, stop, and data bits, and optional RTS/CTS flow control signals. The feature set is configurable, allowing designers to implement just the necessary functionality for a given system.

The core provides an Avalon Memory-Mapped (Avalon-MM) slave interface that allows Avalon-MM master peripherals (such as a Nios® II processor) to communicate with the core simply by reading and writing control and data registers.

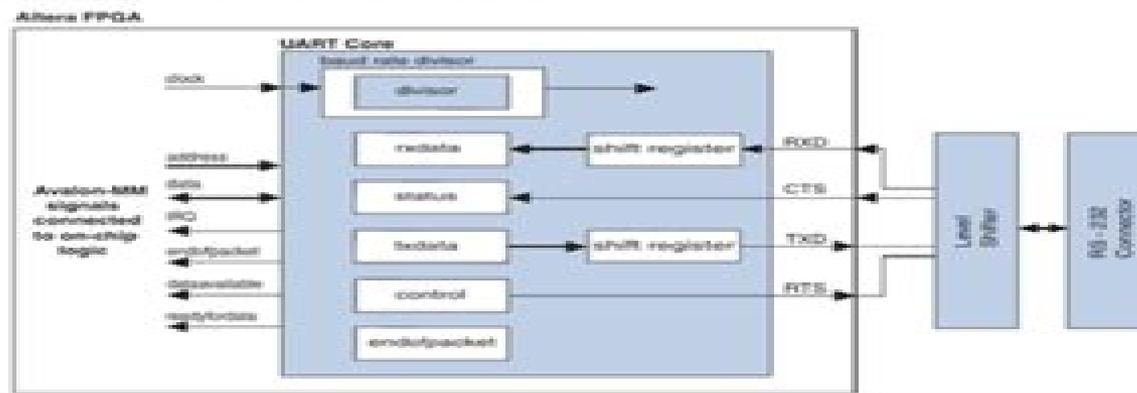
The UART core is SOPC Builder-ready and integrates easily into any SOPC Builder-generated system. This chapter contains the following sections:

- "Functional Description"
- "Device Support" on page 6-3
- "Instantiating the Core in SOPC Builder" on page 6-3
- "Simulation Considerations" on page 6-7
- "Software Programming Model" on page 6-8

### Functional Description

Figure 6-1 shows a block diagram of the UART core.

Figure 6-1. Block Diagram of the UART Core in a Typical System



# 6 Uart Core Altera

**Sebastian Brünink**



## **6 Uart Core Altera:**

## Reviewing **6 Uart Core Altera**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**6 Uart Core Altera**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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