

UART

Networks and Embedded Software

Module 4.3.5

by Wolfgang Neff

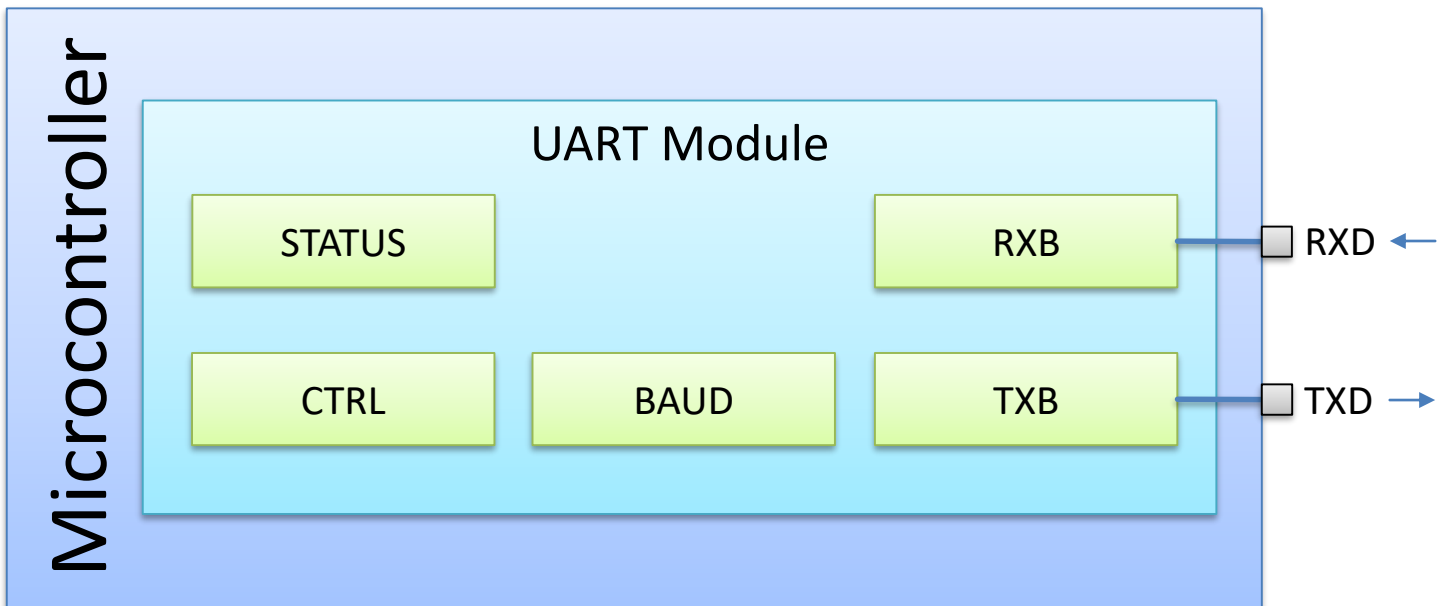
UART (1)

- Application Area
 - Serial communication between two devices
 - Implements a serial communication protocol
 - RS-232, RS-422, RS-485



UART (2)

- Module



UART (3)

- Registers
 - DATA
 - Receive Data Buffer (RXB)
 - Transmit Data Register (TXB)
 - Control
 - Control Register (CTRL)
 - Enables receiver
 - Enables transmitter

UART (4)

- Registers (continued)
 - Control (continued)
 - Control Register (CTRL)
 - Parity mode
 - Stop bits
 - Character size
 - Baud Control Register (BAUD)
 - Transmission speed

UART (5)

- Registers (finished)
 - Status
 - Status Register (STATUS)
 - Receive complete
 - Transmit data register empty