SCI Serial Communications Interface Module

Summary

The serial communications interface (SCI) allows asynchronous serial communications with peripheral devices and other microcontroller units (MCU).



SCI Block Diagram

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Features

- Full-duplex operation
- Standard mark/space non-return-to-zero (NRZ) format
- 13-bit baud rate selection
- Programmable 8-bit or 9-bit data format
- > Separately enabled transmitter and receiver
- Separate receiver and transmitter CPU interrupt requests
- Two receiver wakeup methods
- Interrupt-driven operation with eight flags
- Receiver framing error detection
- Hardware parity checking
- \blacktriangleright 1/16 bit-time noise detection
- General-purpose I/O capability

Performance and Characteristics

- ► Frequency (WCS): 100 MHz
- Die Size: 0.029 mm2
- ➢ Process: 0.18µm (WCS, 1.62V, 120°)

Application Examples

Communication with PC or other MCU

Availability

➢ Q2, 2003

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