

OM6270: SPI/I²C to UART bridge demo board (SC16IS750)

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Overview

The OM6270 is the demo board for the SC16IS750. The SC16IS740/750/760 is a slave I²C-bus/SPI interface to a single-channel high-performance UART. It offers data rates up to 5 Mbit/s and guarantees low operating and sleeping current. The SC16IS750 and SC16IS760 also provide the application with 8 additional programmable I/O pins. The device comes in very small HVQFN24, TSSOP24 (SC16IS750/760) and TSSOP16 (SC16IS740) packages, which makes it ideally suitable for handheld, battery operated applications. This family of products enables seamless protocol conversion from I²C-bus or SPI to and RS-232/RS-485 and are fully bidirectional.

Features

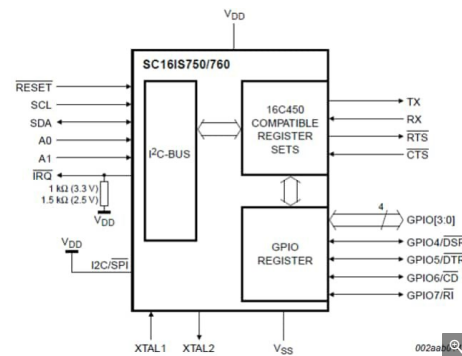
- Single full-duplex UART
- Selectable I²C-bus or SPI interface
- 3.3 V or 2.5 V operation
- Industrial temperature range: -40 °C to +95 °C
- 64 bytes FIFO (transmitter and receiver)
- Fully compatible with industrial standard 16C450 and equivalent
- Baud rates up to 5 Mbit/s in 16x clock mode
- Auto hardware flow control using RTS/CTS
- Auto software flow control with programmable Xon/Xoff

datasheet

Data Sheets

Buy

SC16IS750 Block diagram



Supported Devices

- SC16IS740_750_760: Single UART with I2C-bus/SPI interface, 64 bytes of transmit and receive FIFOs, IrDA SIR built-in support

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