

SC16IS741 je slave I²C-bus/SPI jednokanálový UART.

Poskytuje prenosovú rýchlosť až do 5 Mbit/s a to pri nízkom odbere v aktívnom a spiacom režime. Môže sa jednať o nástupcu obľúbenej 16C450.

SC16IS741 obsahuje sadu interných registrov spätne kompatibilných s populárnou 16C450. Toto uľahčuje programovanie a portovanie existujúcich aplikácií..

SC16IS741 umožňuje automatické hardvérové a softvérové riadenie toku dát (flow control), automatickú podporu pre linku RS-485 softvérový reset.

Čip je oblečený do TSSOP16 púzdra.

Vlastnosti

- 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 16× clock mode
- Auto hardware flow control using RTS/CTS
- Auto software flow control with programmable Xon/Xoff characters
- Single or double Xon/Xoff characters
- Automatic RS-485 support (automatic slave address detection)
- RS-485 driver direction control via RTS signal
- RS-485 driver direction control inversion
- Built-in IrDA encoder and decoder interface
- Software reset
- Transmitter and receiver can be enabled/disabled independent of each other
- Receive and Transmit FIFO levels
- Programmable special character detection
- Fully programmable character formatting
 - 5-bit, 6-bit, 7-bit or 8-bit character
 - Even, odd, or no parity
 - 1, 1½, or 2 stop bits
 - Line break generation and detection
- Internal Loopback mode
- Sleep current less than 30 µA at 3.3 V
- Industrial and commercial temperature ranges
- Available in the TSSOP16 package

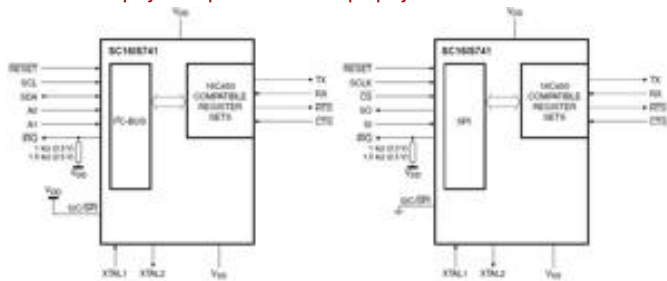
I²C-bus features

- Noise filter on SCL/SDA inputs
- 400 kbit/s maximum speed
- Compliant with I²C-bus fast speed
- Slave mode only

SPI features

- Slave mode only
- SPI Mode 0

Blokové zapojenie pre I2c a SPI pripojenie



Cena

Zatiaľ nezistená, vzorky by ale mali byť dostupné.

Odkazy

[SC16IS741 Homepage](#)

[SC16IS741 Datasheet](#)

Distribúcia

[vid. Adresár](#)