

SC18IS60x
1k units from:
€ 1.19

Free Samples
www.silica.com/
en/DC3_06/spl

SC18IS600/601

SPI slave to I²C master/GPIO bridges



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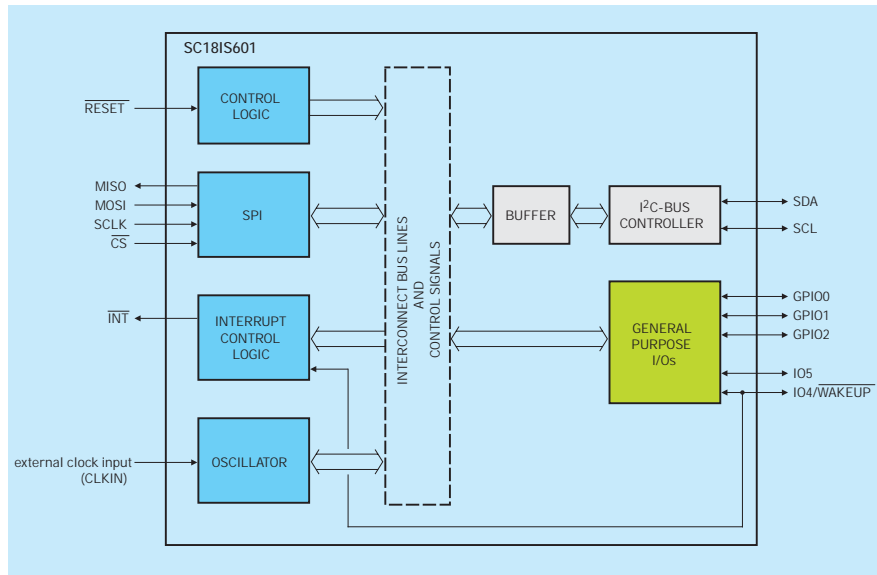
The SC18IS600 and the SC18IS601 allow a host with an SPI bus to communicate transparently with I²C-bus devices such as LCD displays, temperature/voltage sensors and EEPROM data storage. The I²C-bus controller has multi-master capability, so it can share the bus with a microcontroller or other I²C masters. The high speed SPI bus slave operates at up to 3Mbps.

Both devices support 2.4V to 3.6V operation and offer up to four GPIO and two quasi-bidirectional I/O pins. The I/O pins are tolerant to 5V.

They have 96 byte on-chip transmit and receive buffers, use a wake-up pin to support power-down mode and provide active low interrupt output. The SC18IS600 and SC18IS601 operate in the industrial temperature range and are available in a 16 pin package.

Key Features

- Fast I²C-bus (up to 400 Kbps) with multi-master capability
- High-speed SPI slave up to 3Mbit/s (SC18IS601)
- 96-byte transmit buffer
- 96-byte receive buffer



- Up to four GPIO and two quasi-bidirectional I/O pins
- 5V tolerant I/O pins
- 2.4V to 3.6V operation
- Power-down mode with wake-up pin
- Oscillator: internal (SC18IS600), external (SC18IS601)
- Active LOW interrupt output
- Available in very small TSSOP16 package
- Industrial temperature range [-40 to +85°C]

Key Applications

- Industrial front-panel interfaces
- Industrial equipment control
- Telecom/Networking
- Medical equipment
- I²C sensors adapter

Key Design Tips

- Bridge Demo Board Kit
- App. Note AN10428

Service available or already delivered T&R from Manufacturer.
Tapes are available, but not stocked at Avnet Logistics due to low demand.
Device supported by or programming equipment, but the socket for this package must be provided by customer.

P/N	Package	Programming	Taping & Reeling	Marking
SC18IS600IPW	16-pinTSSOP			
SC18IS601IPW	16-pinTSSOP			

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