



# SPI to I<sup>2</sup>C-Bus Bridge

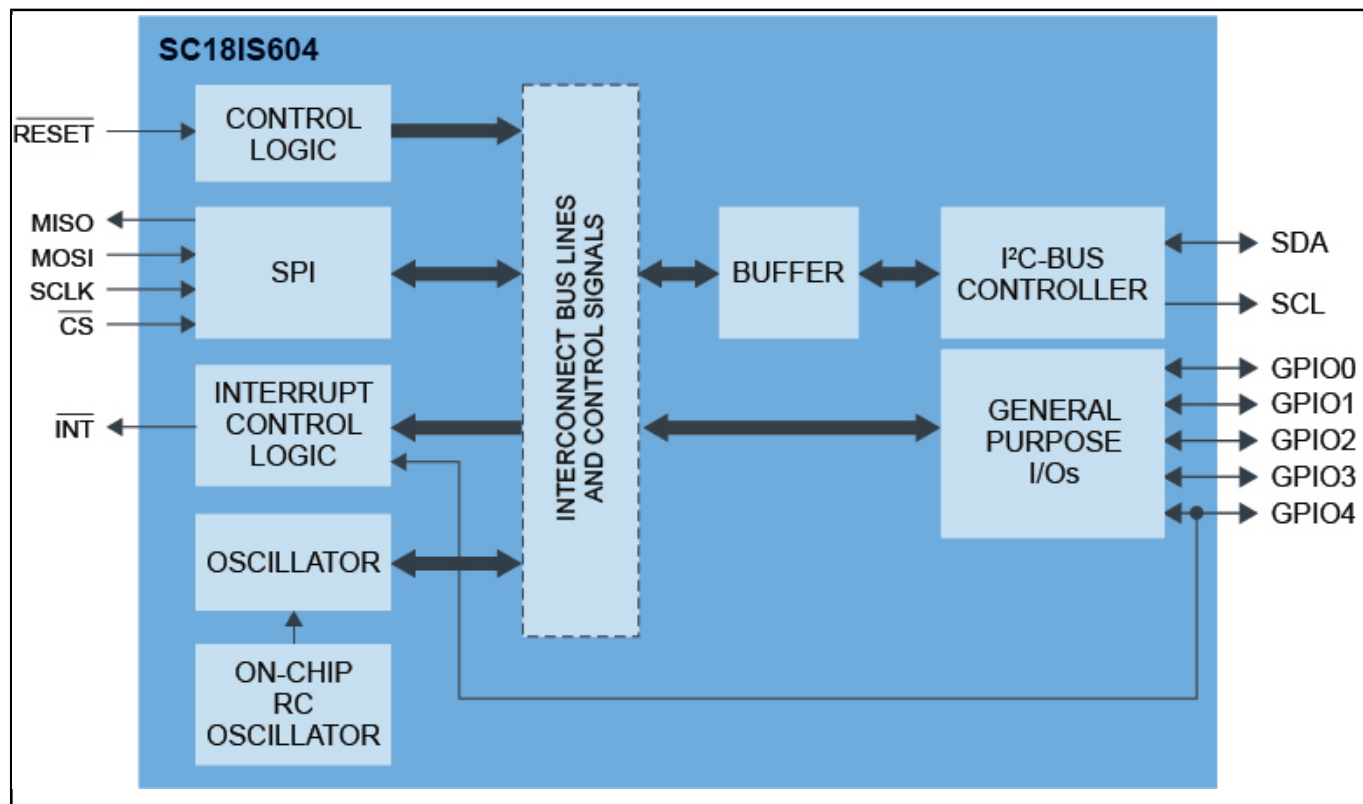
## SC18IS604

Last Updated: Mar 10, 2025

SC18IS604 is designed to serve as an interface between the standard SPI of a host (microcontroller, microprocessor, chip set, etc.) and the serial I<sup>2</sup>C-bus. This allows the host to communicate directly with other I<sup>2</sup>C-bus devices. SC18IS604 can operate as an I<sup>2</sup>C-bus controller-transmitter or controller-receiver. SC18IS604 controls all the I<sup>2</sup>C-bus specific sequences, protocol, arbitration and timing.

SC18IS604 is a functional replacement for SC18IS600 with exception of: new pinout, transmit and receive buffer of 255 bytes vs 96 bytes, three instead of four GPIOs but no longer with quasi bidirectional mode, operating supply voltage lower level lowered to 1.71 V vs 2.4 V and temperature range of -40 to 105 °C vs -40 to 85 °C.

## SC18IS604 Block Diagram



View additional information for [SPI to I²C-Bus Bridge](#).

**Note:** The information on this document is subject to change without notice.

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