



# Remote 16-Bit I/O Expander for Fm+ I<sup>2</sup>C-Bus with Interrupt and Reset

## PCA9673

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The PCA9673 provides general purpose remote I/O expansion for most microcontroller families via the two-line bidirectional bus (I<sup>2</sup>C-bus) and is a part of the Fast-mode Plus family.

The PCA9673 is a drop in upgrade for the PCF8575 providing higher Fast-mode Plus (Fm+) I<sup>2</sup>C-bus speeds (1 MHz versus 400 kHz) so that the output can support PWM dimming of LEDs, higher I<sup>2</sup>C-bus drive (30 mA versus 3 mA) so that many more devices can be on the bus without the need for bus buffers, higher total package sink capacity (400 mA versus 100 mA) that supports having all 25 mA LEDs on at the same time and more device addresses (16 versus 8) are available to allow many more devices on the bus without address conflicts.

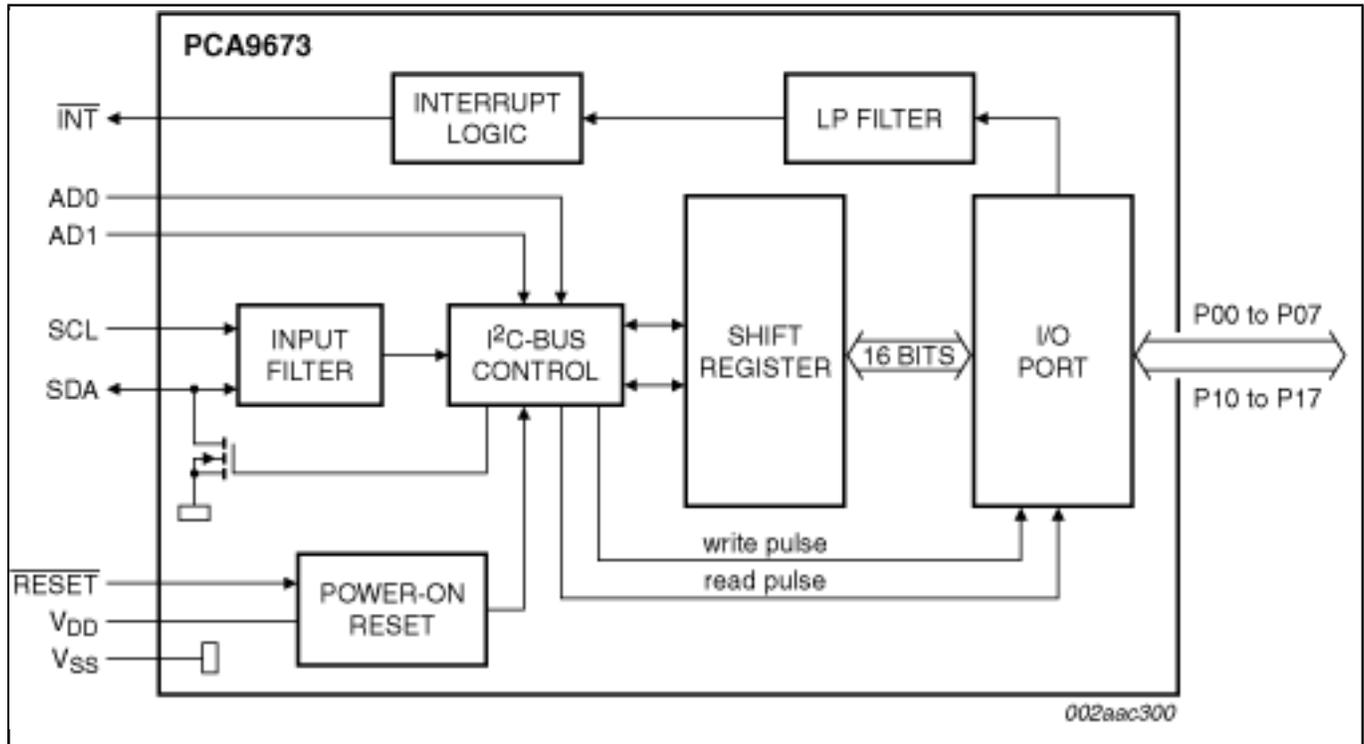
The difference between the PCA9673 and the PCF8575 is that the A2 address pin is replaced by a RESET input on the PCA9673.

The device consists of a 16-bit quasi-bidirectional port and an I<sup>2</sup>C-bus interface. The PCA9673 has a low current consumption and includes latched outputs with 25 mA high current drive capability for directly driving LEDs.

It also possesses an interrupt line (INT) which can be connected to the interrupt logic of the microcontroller. By sending an interrupt signal on this line, the remote I/O can inform the microcontroller if there is incoming data on its ports without having to communicate via the I<sup>2</sup>C-bus.

The internal Power-On Reset (POR), hardware reset pin (RESET) or software reset sequence initializes the I/Os as inputs.

## PCA9673 Block Diagram Block Diagram



View additional information for [Remote 16-Bit I/O Expander for Fm+ I<sup>2</sup>C-Bus with Interrupt and Reset](#).

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

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