



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

## PCA8575

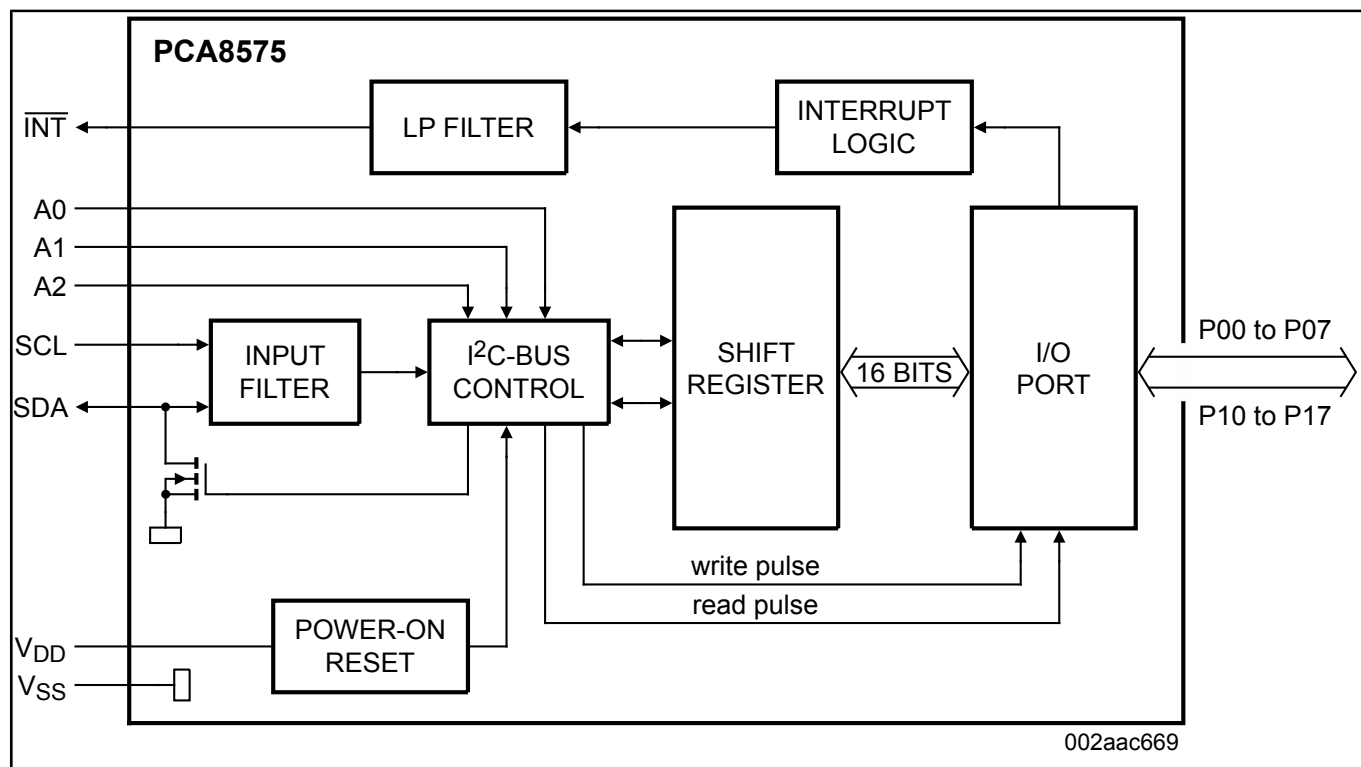
Last Updated: Oct 31, 2023

The PCA8575 provides general purpose remote I/O expansion for many microcontroller families via the two-line bidirectional I<sup>2</sup>C-Bus (serial clock (SCL), serial data (SDA)).

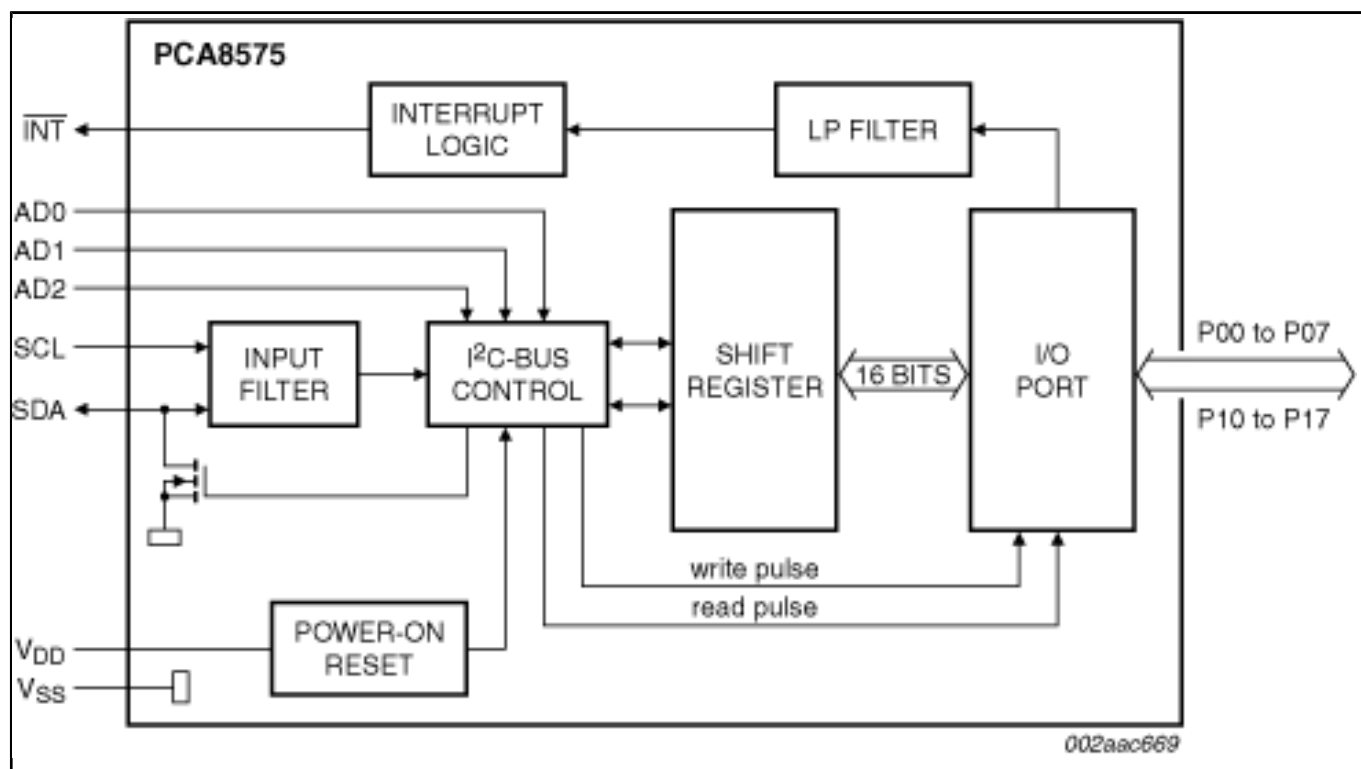
The device consists of a 16-bit quasi-bidirectional port and an I<sup>2</sup>C-bus interface. The PCA8575 has a low current consumption and includes latched outputs with high current drive capability for directly driving LEDs.

The PCA8575 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) initializes the I/Os as inputs.

## PCA8575 Block Diagram Block Diagram



## Block diagram: PCA8575BQ, PCA8575BS, PCA8575D, PCA8575DB, PCA8575DK, PCA8575PW Block Diagram



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

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

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