



Remote 4-Bit General Purpose Outputs for 1 MHz I²C-Bus

PCA9570

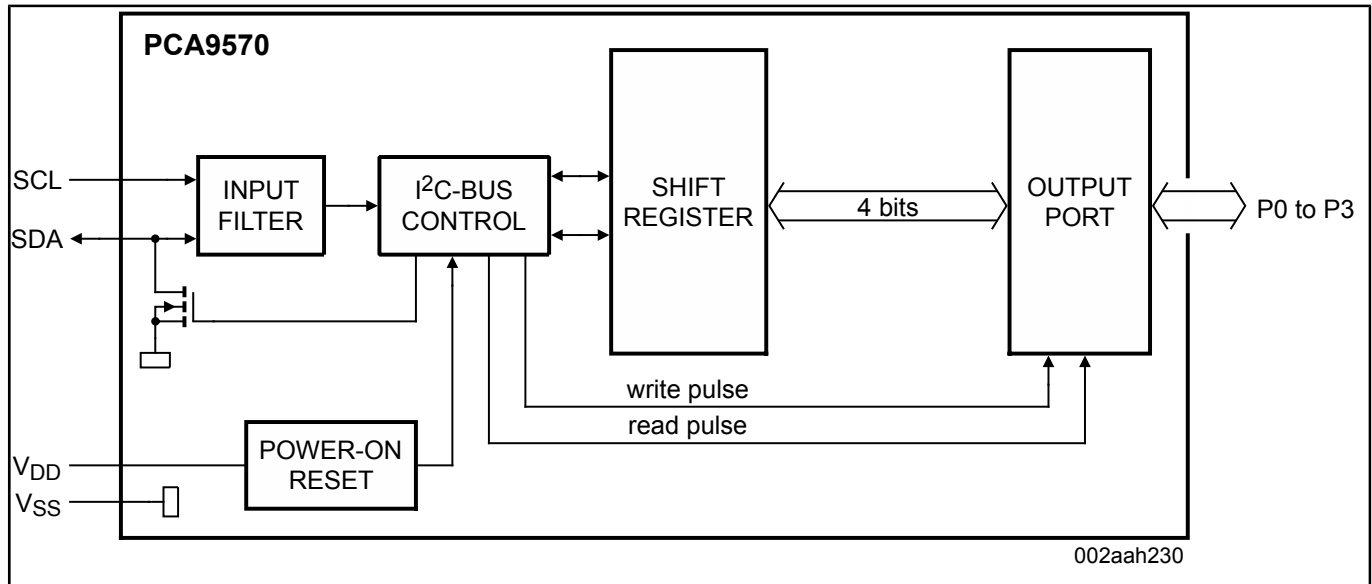
Last Updated: Aug 22, 2022

The PCA9570 is a CMOS device that provides 4 bits of General Purpose parallel Output (GPO) expansion in low voltage processor and handheld battery powered mobile applications. It operates at 1 MHz I²C#bus speeds while maintaining backward compatibility to Fast-mode (400 kHz) and Standard-mode (100 kHz).

The PCA9570 is a streamlined GPO that consists of 4-bit push-pull outputs that offer low current consumption, small packaging options and a low operating voltage range of 1.1 V to 3.6 V. The latched outputs are symmetrical 4 mA current drive capability at 3.3 V to drive various control logic. The PCA9570 output expander provides a simple solution when additional outputs are needed while keeping interconnections and floor space to a minimum, for example, in battery powered mobile applications where PCBs are crowded for interfacing to sensors, push buttons, etc.

The PCA9570 contains an internal Power-On Reset (POR) and a Software Reset feature that initializes the device to its default state.

PCA9570 Block Diagram Block Diagram



View additional information for [Remote 4-Bit General Purpose Outputs for 1 MHz I²C-Bus](#).

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

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2022 NXP B.V.