



# I<sup>2</sup>C-Bus Controller

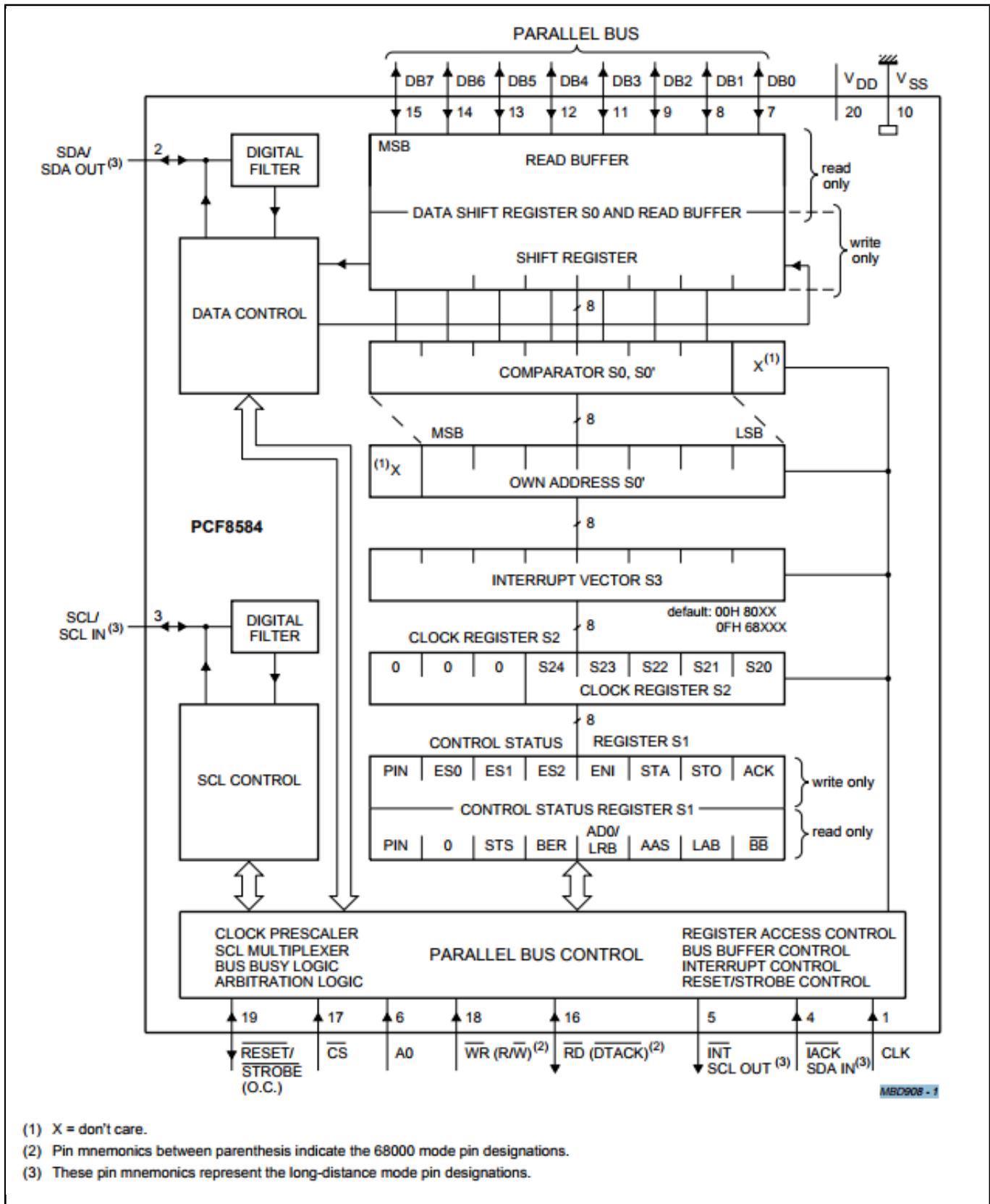
## PCF8584

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The PCF8584 is an integrated circuit designed in CMOS technology which serves as an interface between most standard parallel-bus microcontrollers/microprocessors and the serial I<sup>2</sup>C-bus. The PCF8584 provides both controller and target functions.

Communication with the I<sup>2</sup>C-bus is carried out on a byte-wise basis using interrupt or polled handshake. It controls all the I<sup>2</sup>C-bus specific sequences, protocol, arbitration and timing. The PCF8584 allows parallel-bus systems to communicate bidirectionally with the I<sup>2</sup>C-bus.

# PCF8584 Block Diagram Block Diagram



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

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