



I²C-Bus Controller

PCF8584

Last Updated: Sep 17, 2025

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 I²C-bus. The PCF8584 provides both controller and target functions.

Communication with the I²C-bus is carried out on a byte-wise basis using interrupt or polled handshake. It controls all the I²C-bus specific sequences, protocol, arbitration and timing. The PCF8584 allows parallel-bus systems to communicate bidirectionally with the 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. © 2025 NXP B.V.