



# Ultra-Reliable MPC574xP MCU for Automotive and Industrial Safety Applications

## MPC574xP

Last Updated: Mar 7, 2025

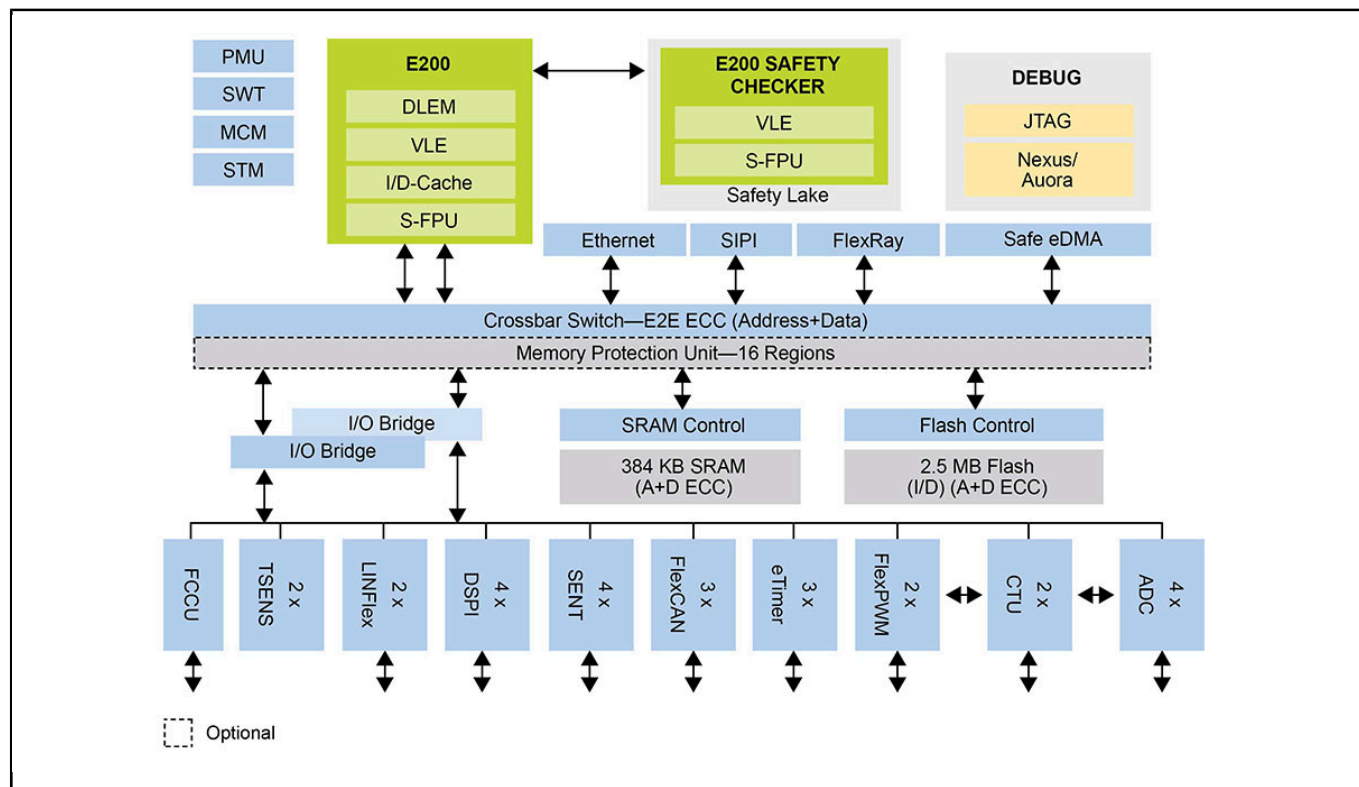
The MPC574xP MCU family features a 32-bit embedded Power Architecture®. It meets the highest functional safety standards for automotive and industrial functional safety applications.

- Integrated safety architecture minimizes additional software and development churn
- Programmable Fault Collection and Control Unit (FCCU) monitors the integrity status of the device and provides flexible safe state control
- End-to-End Error Correcting Code (e2eECC) improves fault tolerance and detection
- Part of the SafeAssure® program, helping manufacturers achieve functional safety standard compliance

Full-featured devices to get started with SW development:

- SPC5744PFK1AMLQ9 (144LQFP package)
- SPC5744PGK1AMMM9 (257MAPBGA package)

## NXP MPC574xP Block Diagram Block Diagram



View additional information for [Ultra-Reliable MPC574xP MCU for Automotive and Industrial Safety Applications](#).

**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.