



NXP CoreRide Z248 Zonal Reference System

CORERIDE-Z248 NEW

Preproduction

This page contains information on a preproduction product. Specifications and information herein are subject to change without notice. For additional information please contact your sales representative.

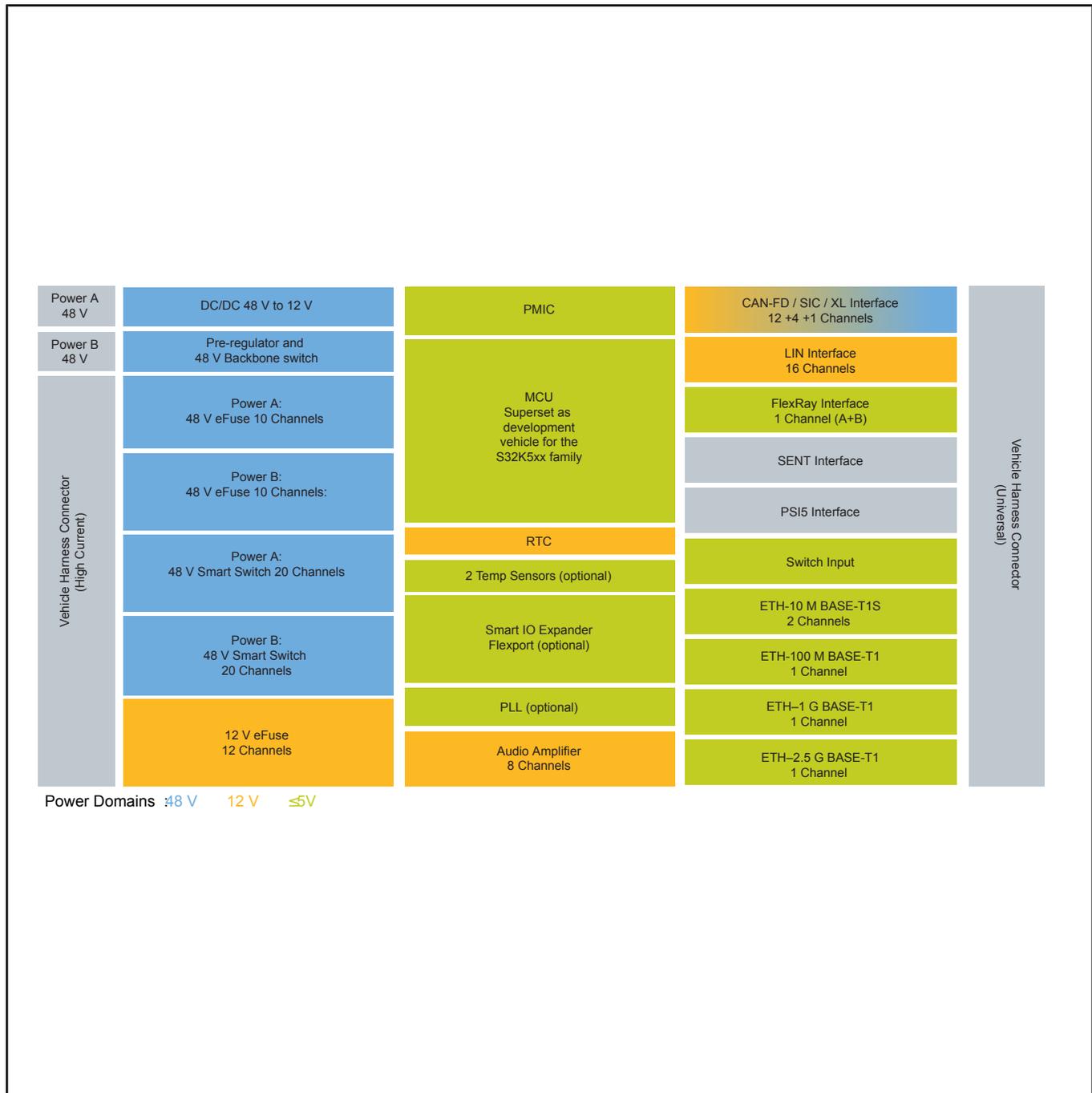
Last Updated: Mar 9, 2026

NXP CoreRide Z248 Zonal Reference System is a compact ECU solution that merges 48 V power management, data routing, diagnostics and AI-enabled sensing into one unit. Built on the S32K5 microcontroller, it reduces complexity and speeds development for next-generation software-defined vehicles.

The design helps automakers simplify E/E architectures, supports mixed 48 V/12 V systems and accelerates software deployment across vehicle platforms. Its CI/CT/CD-ready environment and preintegrated software ecosystem enable rapid prototyping and faster transitions from legacy architectures.

Delivered with full validation and a scalable chipset, the Z248 supports consistent performance across ICE, hybrid and BEV platforms and integrates seamlessly with NXP's broader 48 V and networking technologies.

NXP CoreRide Z248 Features Block Diagram



View additional information for [NXP CoreRide Z248 Zonal Reference System](#).

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. © 2026 NXP B.V.