



# Digital Signal Controllers

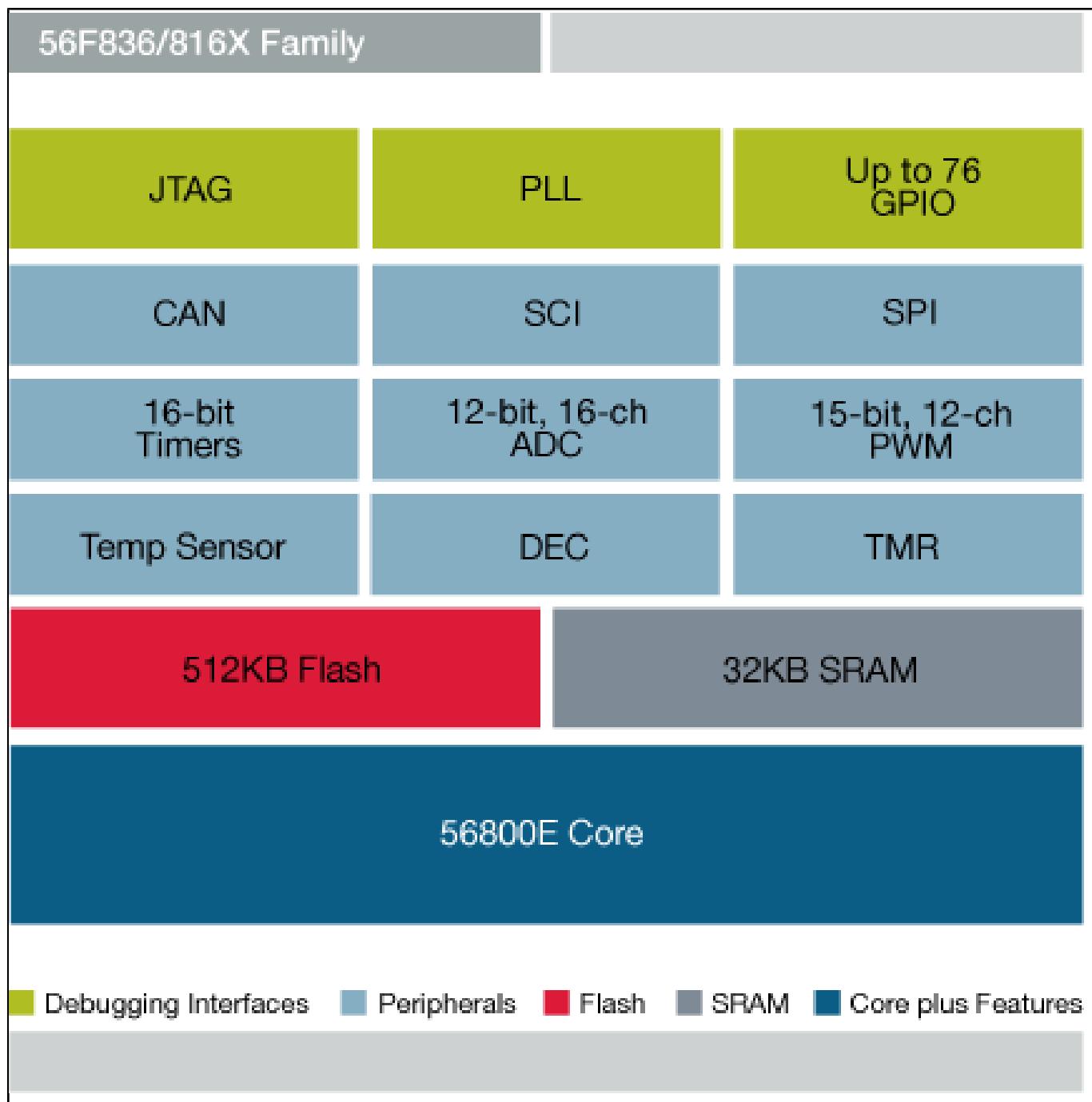
## 56F836X-816X

Last Updated: Jan 14, 2026

NXP® 56F836X and 56F816X digital signal controllers belong to the 56800E core-based DSC family. They combine digital signal processing and microcontroller functionalities on a single chip, with a flexible set of peripherals.

- On-chip integration and ease of implementation help to speed development, lower component count, and significantly reduce system cost
- Simplifies designs while promoting compliance with safety regulations
- Supported by robust development tools to simplify and accelerate time-to-market

## 56F836X/816X Digital Signal Controller Block Diagram



[View additional information for Digital Signal Controllers.](#)

**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.