



S12P and MC33812 Small Engine Control Reference Design

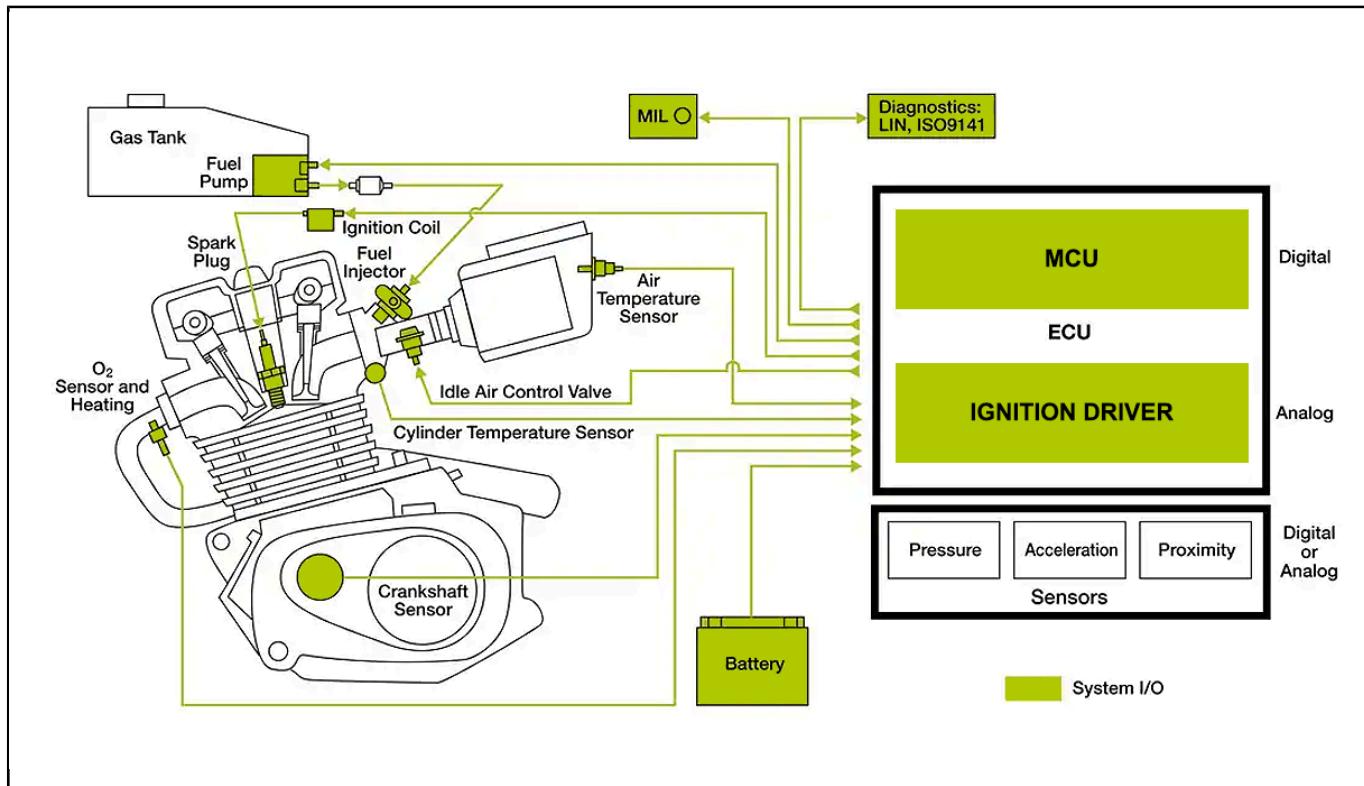
KIT33812ECUEVME

Last Updated: Dec 23, 2025

This NXP® reference design is a fully functional single cylinder engine control unit (ECU).

- Features the NXP 33812 and 9S12P128 MCU devices
- Can be configured for dual cylinder - note that the application must be able to tolerate simultaneous spark in both cylinders

MC44812/S12P Small Engine Block Diagram



[View additional information for S12P and MC33812 Small Engine Control Reference Design.](#)

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.