



Engine Control Integrated Circuit

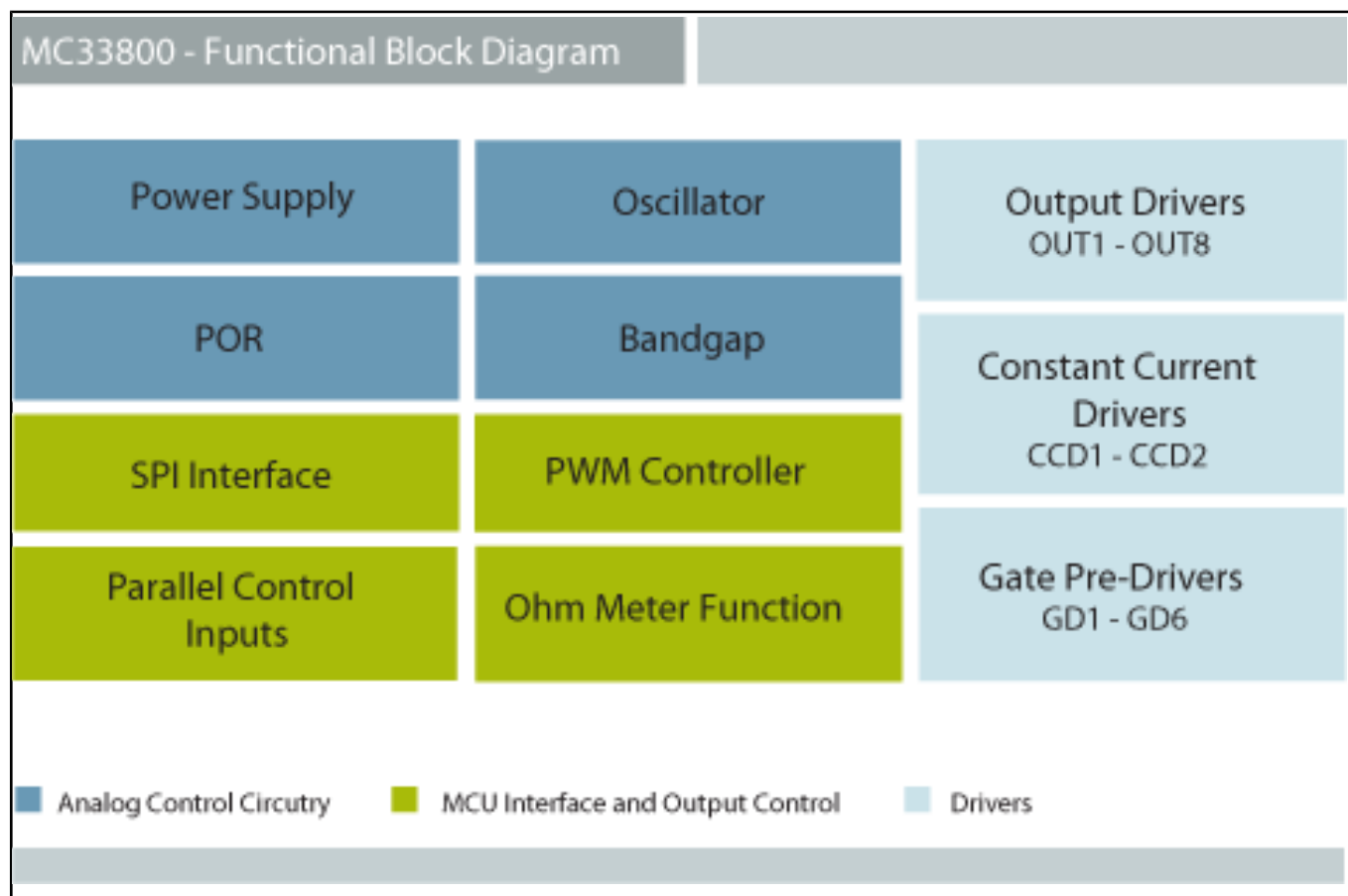
MC33800

Last Updated: Jul 23, 2025

The NXP MC33800 is a combination output switch and driver IC that is ideal for numerous powertrain engine control applications.

- Contains two programmable constant current drivers (CCD), an octal, low-side, serial switch (OSS) and six, external MOSFET gate predrivers (GD)
- Overvoltage, undervoltage and thermal protection
- All drivers and switches, including the external MOSFETs, have overcurrent protection, off-state open load detection, on-state shorted load detection and fault annunciation via the SPI
- Cost-effective packaging

NXP MC33800 Low Side Switch Block Diagram Block Diagram



View additional information for [Engine Control Integrated Circuit](#).

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.