



# S12ZVM 12 V Electrical Fuel Pump (EFP) Reference Design

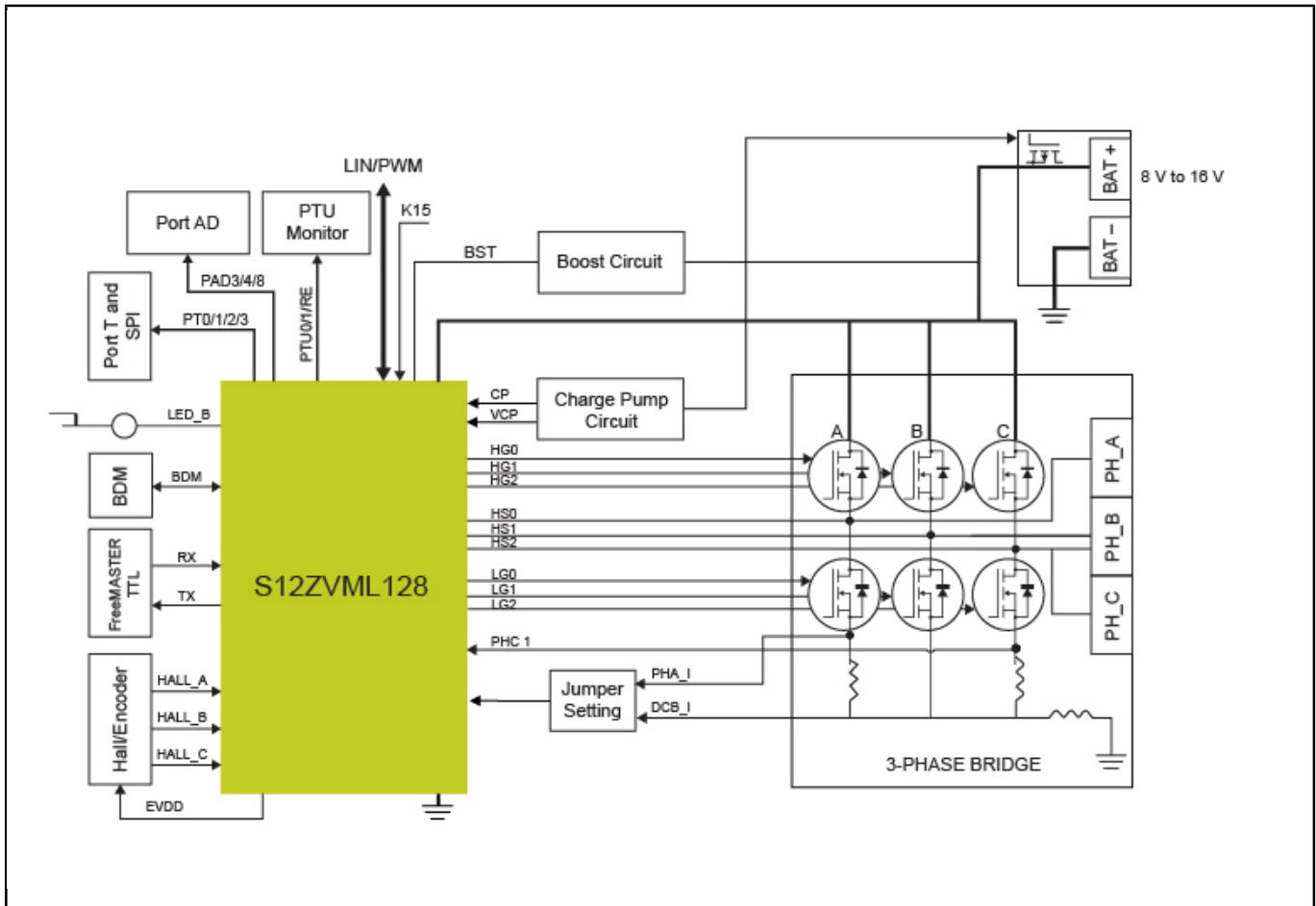
## S12ZVM-EFP

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The S12ZVM-EFP is an out-of-box reference design board engineered for 12 V 3-phase permanent magnet synchronous motor (PMSM) automotive electrical fuel pump (EFP).

Based on the 16-bit S12 MagniV® S12ZVM mixed-signal microcontrollers, the S12ZVM-EFP uses smooth cross-over I-F start-up and initial position detection (IPD) algorithm to ensure the robust and fast start-up for achieving the strict goal of below 150 ms from standstill to rated speed.

# S12ZVM-EFP Block Diagram



View additional information for [S12ZVM 12 V Electrical Fuel Pump \(EFP\) Reference Design](#).

Note: The information on this document is subject to change without notice.

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