Software Configurable Input and Output Analog Front End Family
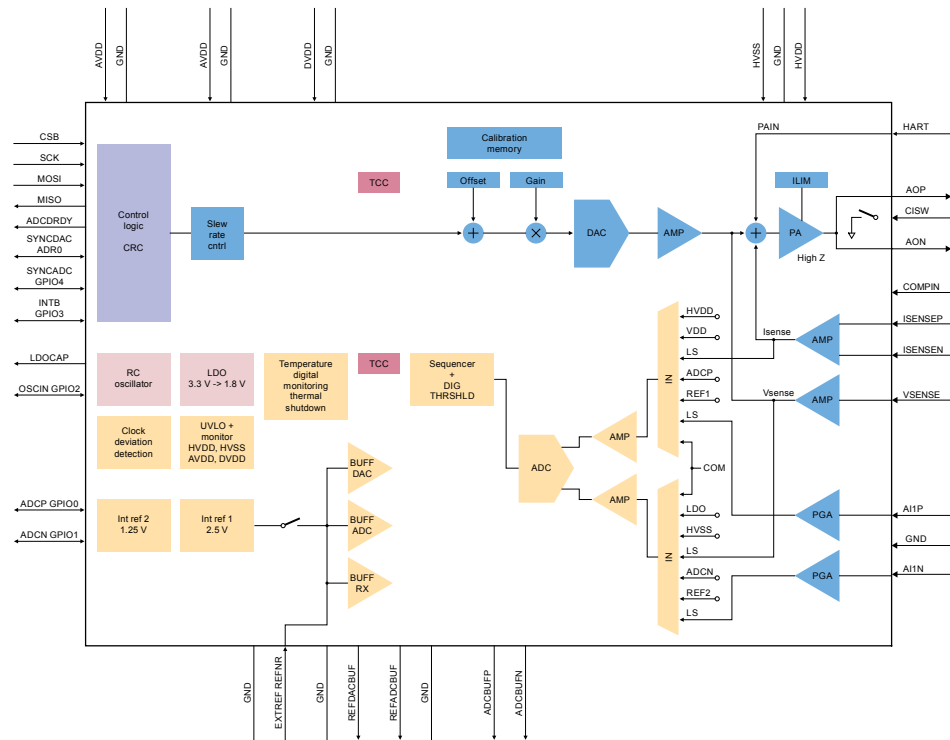
NAFEx3352

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The NAFEx3352 is a Software Configurable Analog Input and Output Analog Front End Family (AIO-AFE). It features one Analog input/output channel and two universal input channels. The AIO-AFE family integrates a precision 14/16/18-bit digital-to-analog converter (DAC), a 16/24-bit analog-to-digital converter (ADC), a low-drift voltage reference, low-offset drift buffers and high-voltage, high-precision amplifiers with 65 V input-protection circuit for EMC and miswiring scenarios.

The device has built-in diagnostic and protection circuits for both the output and input channels, enabling anomaly detection, predictive maintenance, and functional safety. The AIO-AFE is ideal for programmable logic controllers (PLC), Process Control, I/O modules, and data loggers applications.

The NAFE33352 is the low power version and the NAFE93352 is the high speed version.

NAFEx3352 Block Diagram

View additional information for Software Configurable Input and Output Analog Front End Family.

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

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