



# Software Configurable Input and Output Analog Front End Family

## NAFE33352

### Preproduction

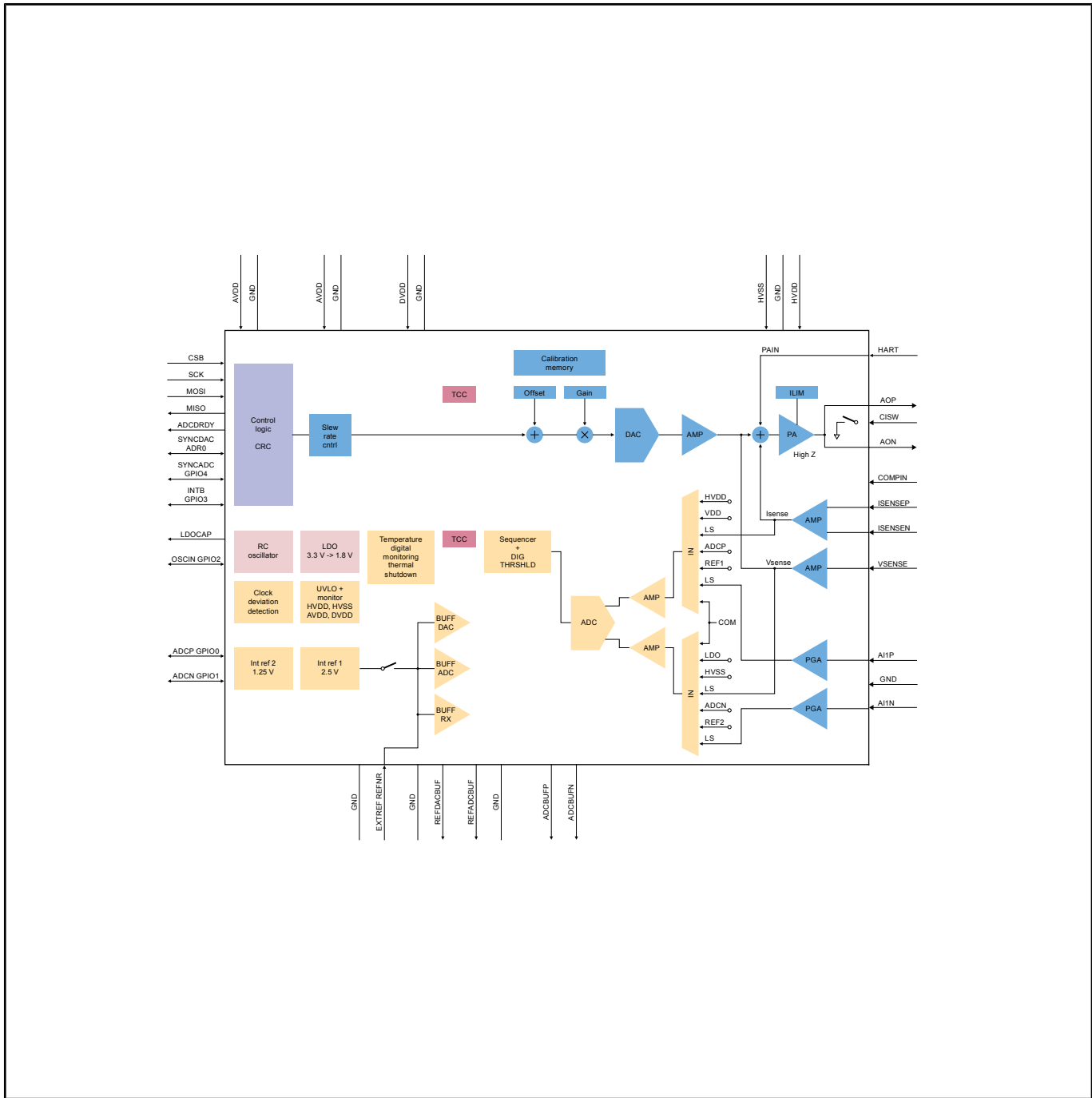
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The NAFE33352 is a Software Configurable Analog Input and Output Analog Front End Family (AIO-AFE). It features one Analog input/output channel and two universal input channels. The AIO-AFE family integrates a precision 14/16/18-bit digital-to-analog 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.

# NAFE33352 Block Diagram



View additional information for [Software Configurable Input and Output Analog Front End Family](#).

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