



Highly Configurable 8 Channel ± 25 V Universal Input Analog Front-End with Excitation Sources

NAFE_x3388

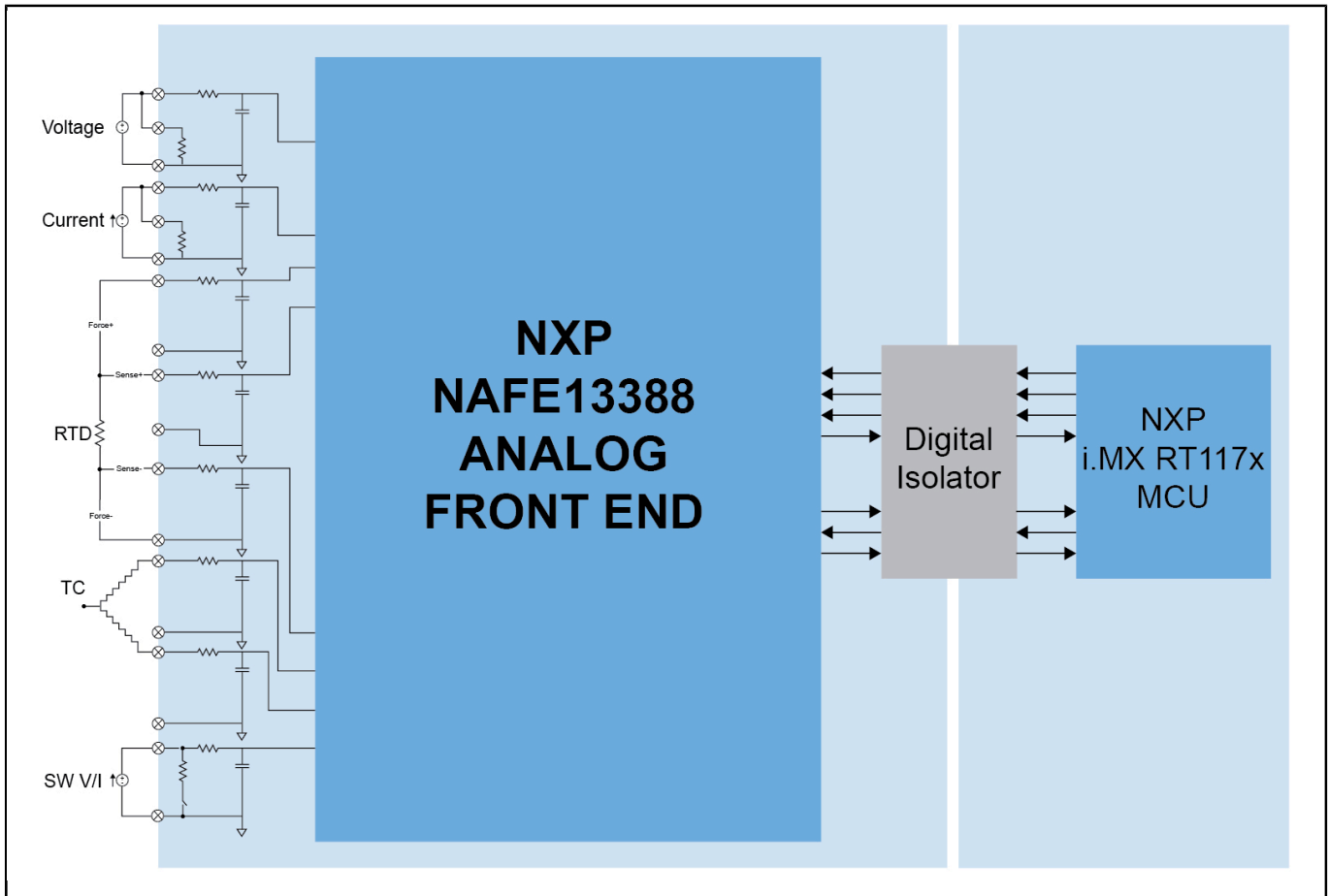
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The NAFE13388 / NAFE73388 is a highly configurable industrial-grade multichannel universal input analog front-end (AFE) that meets high-precision measurement requirements. The device integrates low-leakage, high-voltage (HV) fast multiplexers, low-offset and lowdrift programmable gain amplifier (PGA) and buffers, high data-rate 24-bit Delta-Sigma analog-to-digital converter (ADC), precise voltage and current excitation source, and low-drift voltage reference. All of the HV analog pins are diode-protected internally for electromagnetic compatibility (EMC) and miswiring scenarios. The NAFE13388 / NAFE73388 are equipped with various diagnostic and supplies supervisory circuitry for condition monitoring and anomaly detection. Two precise calibration voltage sources are made available for ease of end-to-end system self-calibration and predictive maintenance.

The NAFE13388 is dedicated to low power applications while the NAFE73388 supports high speed data rate up to 576 kSPS.

The NAFE13388 and NAFE73388 are designed for programmable logic controllers (PLC), I/O modules, data loggers, instrumentation, and high precision sensor and data acquisition systems.

NAFE13388 / NAFE73388 Analog Front-End Block Diagram



View additional information for [Highly Configurable 8 Channel \$\pm 25\$ V Universal Input Analog Front-End with Excitation Sources](#).

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