



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

NAFEx3388

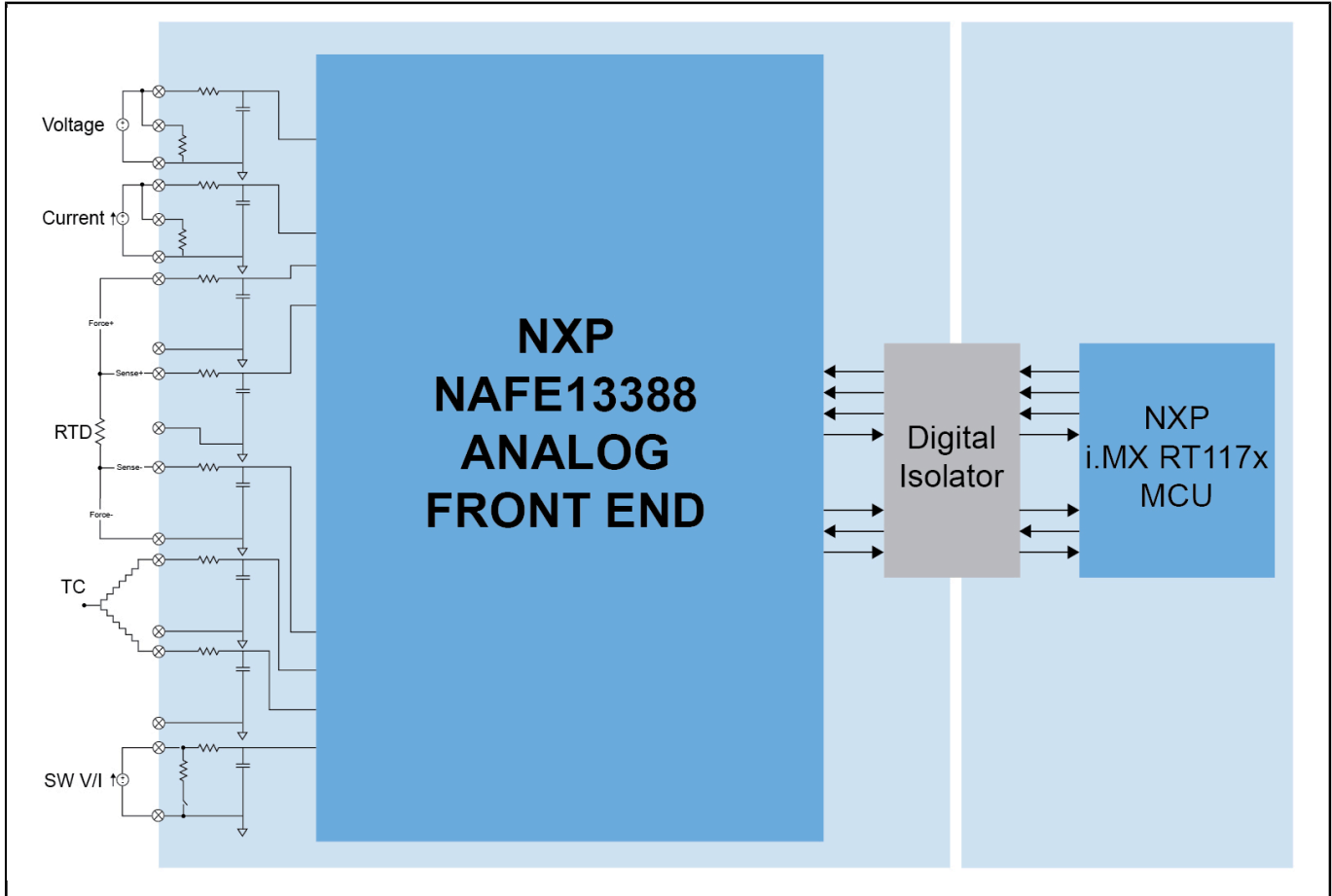
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The NAFE13388 / NAFE73388 / NAFE13188 is a highly configurable industrial-grade multichannel universal input analog front-end (AFE) that meets high-precision measurement requirements. The device integrates low-leakage, high-voltage (HV) fast multiplexers, low-offset and low drift 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 / NAFE13188 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 / NAFE13188 are dedicated to low-power applications with factory and non-factory calibration option respectively. The NAFE73388 supports high-speed data rate up to 576 kSPS.

The NAFE13388, NAFE73388 and NAFE13188 are designed for programmable logic controllers (PLC), I/O modules, data loggers, instrumentation and high precision sensor and data acquisition systems.

NAFE13388 / NAFE73388 / NAFE13188 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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