



Highly Configurable 8/4 Channel 24/16 bits ± 25 V Universal Input Analog Front-End with Excitation Sources

NAFEx3388

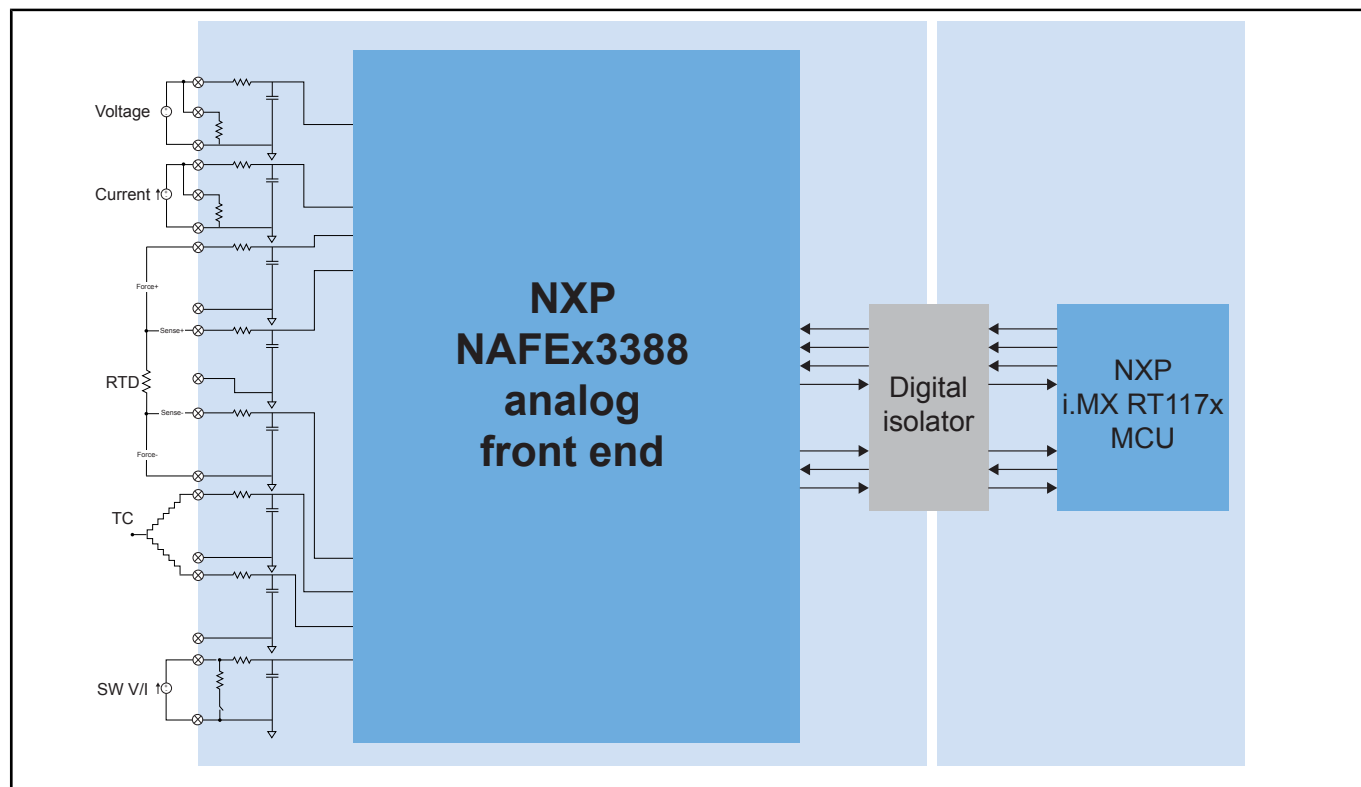
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The NAFEx3388 is a highly configurable industrial-grade multichannel universal input analog front-end (AFE) family that meets high-precision measurement requirements. The family includes parts which differ for high-speed/low-power, factory calibrated or not, 24 or 16 bits ADC, 8 or 4 channels. See the comparison table for more details.

The device integrates low-leakage, high-voltage (HV) fast multiplexers, low-offset and low drift programmable gain amplifier (PGA) and buffers, high data rate 24/16-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 NAFEx3388 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 NAFEx3388 parts are designed for programmable logic controllers (PLC), I/O modules, data loggers, instrumentation and high precision sensor and data acquisition systems.

NAFEx3388 Analog Front-End Block Diagram



View additional information for [Highly Configurable 8/4 Channel 24/16 bits \$\pm 25\$ V Universal Input Analog Front-End with Excitation Sources](#).

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