



# Digital Absolute Pressure Sensor (20 to 550 kPa)

## FXPS7xx0D4

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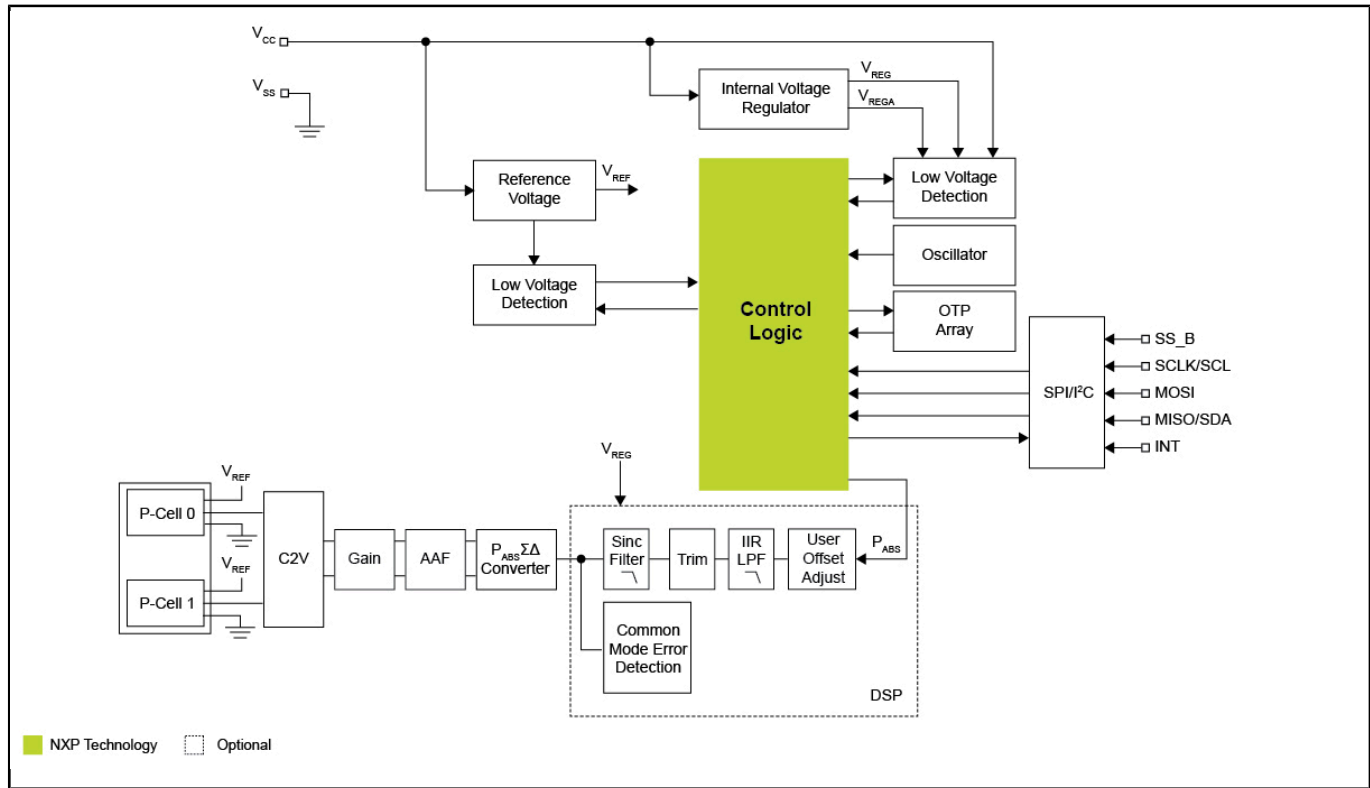
FXPS7xxxDI4ST1 and FXPS7xxxDS4ST1 are the recommend devices for new designs as the FXPS7xxxDI4T1 and FXPS7xxxDS4T1 are discontinued.

The FXPS7xx0D4 high-performance, high-precision barometric absolute pressure (BAP) sensor consists of a compact capacitive micro-electro-mechanical systems (MEMS) device coupled with a digital integrated circuit (IC) producing a fully calibrated digital output.

The sensor is based on NXP's high-precision capacitive pressure cell technology. The architecture benefits from redundant pressure transducers as an expanded quality measure. This sensor delivers highly accurate pressure and temperature readings through either a serial peripheral interface (SPI) or an inter-integrated circuit (I<sup>2</sup>C) interface.

The FXPS7xx0D4 uses either a 3.3 V or 5.0 V power supply. Furthermore, the sensor employs an on-demand digital self-test for the digital IC and the MEMS transducers.

# FXPS7xx0D4 Block Diagram Block Diagram



View additional information for [Digital Absolute Pressure Sensor \(20 to 550 kPa\)](#).

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

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