

GXCAS

Technology

High-Accuracy Digital Temperature Sensor IC

DESCRIPTION

The GXTS03 is GXCAS's new high accuracy digital temperature sensor. Its functionality includes enhanced signal processing, two distinctive and user selectable I2C addresses and communication speeds of up to 1 MHz. The DFN package has a footprint of 3 x 3 mm² while keeping a height of 0.75 mm. This allows for integration of the GXTS03 into a great variety of applications. Additionally, the wide supply voltage range of 1.6 V to 5.5 V guarantees compatibility with a wide range of applications.

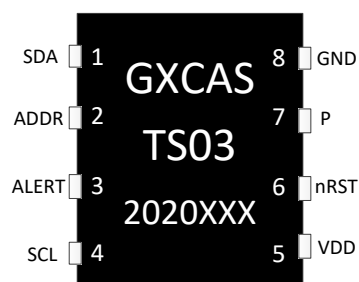
FEATURES

- Fully calibrated and linearized digital output
- Wide supply voltage range, from 1.6 V to 5.5 V
- I2C Interface with communication speeds up to 1MHz and two user selectable addresses
- Typical accuracy of $\pm 0.3^{\circ}\text{C}$
- Very fast start-up and measurement time
- Measures Temperatures from $-45\sim 130^{\circ}\text{C}$
- $\pm 0.1^{\circ}\text{C}$ Accuracy from 35°C to $+45^{\circ}\text{C}$
Thermometer Resolution is 16 Bits
- Converts Temperature to 16-Bit Digital Word in 2ms
- 8-Pin DFN package

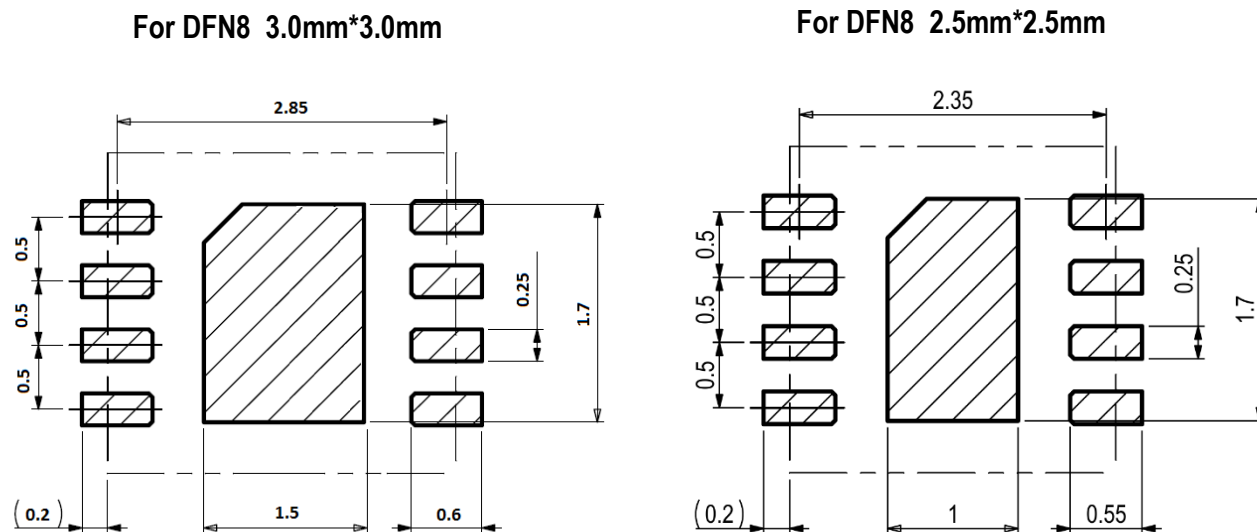
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PIN CONFIGURATIONS



6 Recommended Land Pattern



7 Ordering Information

Order Number	Chip Model	Package	SPQ	Note
GXTS03D-Tr	GXTS03D	DFN8 (3mm*3mm)	490	Tray
GXTS03T-T&R	GXTS03T	DFN8 (2.5mm*2.5mm)	2000	Tape & Reel