GXHTV4



High-Accuracy, Ultra-Low-Power, 16-bit Relative Humidity and Temperature Sensor

Datasheet_V1.6 Jul. 2025

1 Features

Relative humidity accuracy: ±2.5%RH

Temperature accuracy: ±0.2 °C

Supply voltage: 1.6 V to 5.5 V

Average current: 0.4 μA (at meas. rate 1 Hz)

Idle current: 0.1uA

Resolution: 0.01%RH, 0.01°C

Operating range: 0-100%RH, -40~125 °C

Communication Interface: I²C, up to 1 MHz

Variable power heater

NIST traceability

JEDEC JESD47 qualification

Package Information:

PRODUCT	PACKAGE	DETAILS	
GXHTV4-AD	DFN4	See Fig.2, addr:0x44	

2 Applications

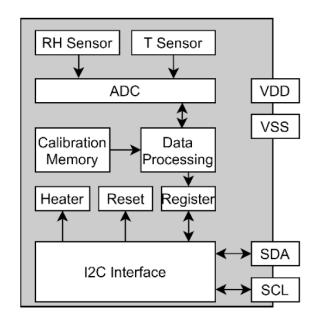
- Automotive cabin
- Industrial control
- Smart home
- Consumer electronics
- Medical devices

3 Description

GXHTV4 is a new-generation single-chip integrated temperature and humidity sensor of Galaxy-CAS, which can offer configurable I²C addresses. The built-in heater can be activated in anti-dew occasions, and the heater power is configurable.

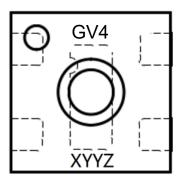
The four-pin dual-flat-no-leads package is suitable for surface mount technology (SMT) processing.

Functional Block Diagram of GXHTV4 Family





8.4 Marking Information



GV4: indicates the model GXHTV4;

XYYZ: X is the year, YY is the week, Z is the internal version number. For example, 5066 indicates production in the 6th week of 2025, version 6.

9 Ordering Information

ORDER NUMBER	DEVICE	PACKAGE	SPQ	NOTE
GXHTV4-AD-R2-T&R	GXHTV4-AD	DFN-4	2000	Addr:0x44, Tape & Reel
GXHTV4-AD-R3-T&R	GXHTV4-AD	DFN-4	10000	Addr:0x44, Tape & Reel

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