

GX2431 1024-Bit 1-Wire EEPROM

Features

- Only one port is required for communication using 1-Wire interface
- Each device equipped with a global unique 64-bit serial number
- 1024 bits of EEPROM memory partitioned into four pages of 256 bits
- Individual memory pages can be permanently write protected or put in EPROM-emulation mode (write to 0)
- No external components required
- Powered by the data line with a range is 2.5V~5.5V
- Reads and writes over a wide voltage range from -55°C to +125°C
- ESD protection: HBM8000V MM800V
- Communicates to host with a single digital signal at 15.4kbps or 125kbps

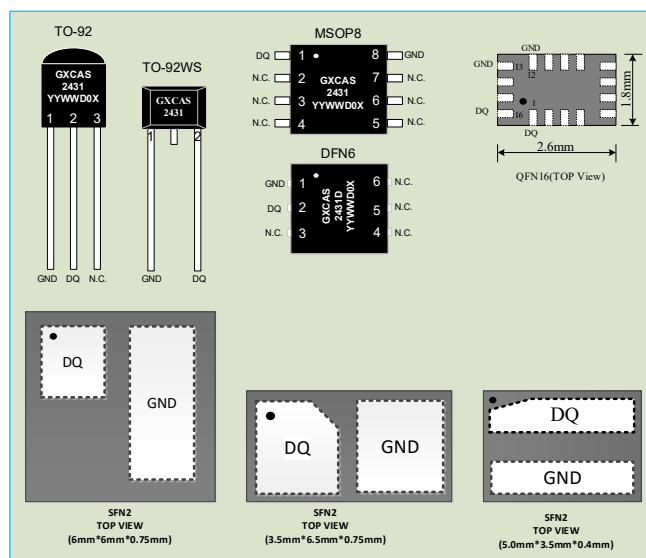
Applications

- Host accessory/PCB identification
- Medical sensor calibration data storage
- Analog sensor calibration
- Ink and toner print cartridge identification
- After-market management of consumables
- BMS product data storage

Description

The GX2431 is an EEPROM chip, which support 1 wire communication. The chip has a 64 bit ROM, which has a family code of 2D. The size of the EEPROM is 1024 bit, which contains 4 pages of 256 bit each. The EEPROM can be set to locked or EPROM mode separately.

Common Package Diagram



Package information

DEVICE	PACKAGE	SIZE (mm ³)
GX2431	TO92	4.6*4.6*3.6
GX2431WS	TO92S-2	4.0*3.15*1.52
GX2431D	DFN6	4.0*4.0*0.75_0.95
GX2431T	DFN6	4.0*4.0*0.75_1.27
GX2431P	MSOP8	3.0*3.0*1.0
GX2431Q	QFN16	1.8*2.6*0.55
GX2431G	SFN2	6.0*6.0*0.73
GX2431GA	SFN2	3.5*6.5*0.73
GX2431S	SFN2	5.0*3.5*0.4
GX2431DVS	DFN6	4.0*4.0*0.75_0.95
GX2431TVS	DFN6	4.0*4.0*0.75_1.27
GX2431VS	TO92	4.6*4.6*3.6

12 Ordering Information

Order Number	Chip Number	Package	SPQ	Note
GX2431-2D-Bu	GX2431-2D	TO92	2000	Bulk
GX2431-ADTW-Bu	GX2431-ADTW	TO92	2000	Bulk
GX2431D-T&R	GX2431D	DFN-6 (4*4_0.95)	4000	Tape & Reel
GX2431DVS-T&R	GX2431DVS	DFN-6 (4*4_0.95)	4000	Tape & Reel
GX2431GA-ADTW-T&R	GX2431GA-ADTW	SFN2(3.5*6.5)	4000	Tape & Reel
GX2431GA-T&R	GX2431GA	SFN2(3.5*6.5)	4000	Tape & Reel
GX2431G-Tr	GX2431G	SFN2(6*6)	490	Tray
GX2431P-T&R	GX2431P	MSOP-8	4000	Tape & Reel
GX2431Q-2DD-T&R	GX2431Q-2DD	QFN16	3000	Tape & Reel
GX2431Q-2DTW-T&R	GX2431Q-2DTW	QFN16	3000	Tape & Reel
GX2431Q-AD-T&R	GX2431Q-AD	QFN16	3000	Tape & Reel
GX2431Q-ADTW-T&R	GX2431Q-ADTW	QFN16	3000	Tape & Reel
GX2431SP2-T&R	GX2431SP2	SFN2	4000	Tape & Reel
GX2431-T&R	GX2431	TO92	2000	Tape & Reel
GX2431T-T&R	GX2431T	DFN-6 (4*4_1.27)	4000	Tape & Reel
GX2431TVS-T&R	GX2431TVS	DFN-6 (4*4_1.27)	4000	Tape & Reel
GX2431VS-Bu	GX2431VS	TO92	2000	Bulk
GX2431WS- Bu	GX2431WS	TO92S-2	2000	Bulk