

2 Channel (1-Remote and 1-Local), High Accuracy Temperature Sensor

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1 Features

- Temperature range: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- Typical accuracy: $\pm 0.5^{\circ}\text{C}$
- High resolution: $0.0625^{\circ}\text{C} / 16\text{bits}$
- Conversion time per channel: 16ms
- Digital output:
 - SMBus, I²C interface compatibility
- Supply voltage range: $2.7\text{V} \sim 5.5\text{V}$
- Low quiescent current: (3.3V, 27°C)
Average current: $16\mu\text{A}$ (0.0625Hz) /
 $45\mu\text{A}$ (1Hz) / $90\mu\text{A}$ (4Hz)
- Local Channel: $180\mu\text{A}$
- Remote Channel: $380\mu\text{A}$
- Shutdown current: $0.4\mu\text{A}$
- Series Resistance Cancellation
- Package Information :

Part Number	Package	Body Size (mm ²)
GXTR7718U	MSOP(8)	3.00 × 3.00

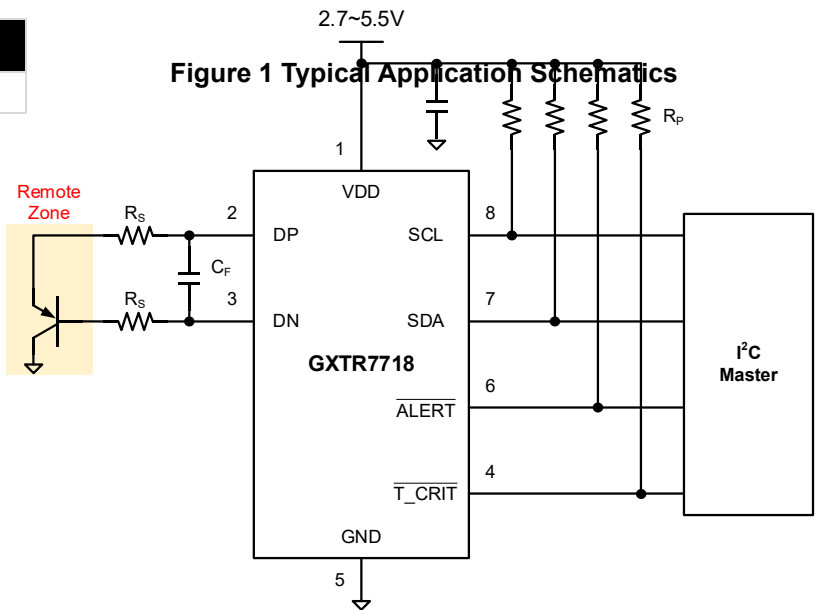
2 Applications

- MCU, GPU, FPGA, DSP, CPU
- Servers, Desktops, and Notebooks
- Industrial and Medical Equipment

3 Description

GXTR7718 is a high-precision, low-power digital temperature sensor compatible with SMBus and I²C interfaces. One remote diode-connected temperature zones can be monitored simultaneously in addition to the local temperature. GXTR7718 features series resistance cancellation, and programmable temperature thresholds, providing a reliable temperature monitoring solution with high accuracy and low power consumption.

The typical accuracy of GXTR7718's local and remote channel is $\pm 0.5^{\circ}\text{C}$. GXTR7718 provide a measurement resolution of 0.0625°C and a measurement range of $-55^{\circ}\text{C} \sim 150^{\circ}\text{C}$. GXTR7718 are available in $3.0\text{mm} \times 3.0\text{mm}$, 8 pin MSOP packages.



10 Ordering Information

Order Number	Chip Model	Package	SPQ	Note
GXTR7718AU-T&R	GXTR7718AU	MSOP-8	4000	Tape & Reel
GXTR7718BU-T&R	GXTR7718BU	MSOP-8	4000	Tape & Reel