

1 Features

- Temperature range: -55°C ~ +125°C
- Temperature accuracy: (-40°C ~ +125°C)
 - Local Channel: ±1°C
 - Remote Channel: ±1°C
- High resolution: 0.0625°C / 16bits
- Conversion time per channel: 16ms
- Digital output:
 - SMBus, I²C interface compatibility
- Supply voltage range: 2.7V ~ 5.5V
- Low quiescent current: (3.3V, 27°C)
 - Average current: 16μA (0.0625Hz) / 45μA (1Hz) / 90μA (4Hz)
 - Local Channel: 180μA
 - Remote Channel: 380μA
 - Shutdown current: 0.4μA
- Series Resistance Cancellation
- Package Information:

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

2 Applications

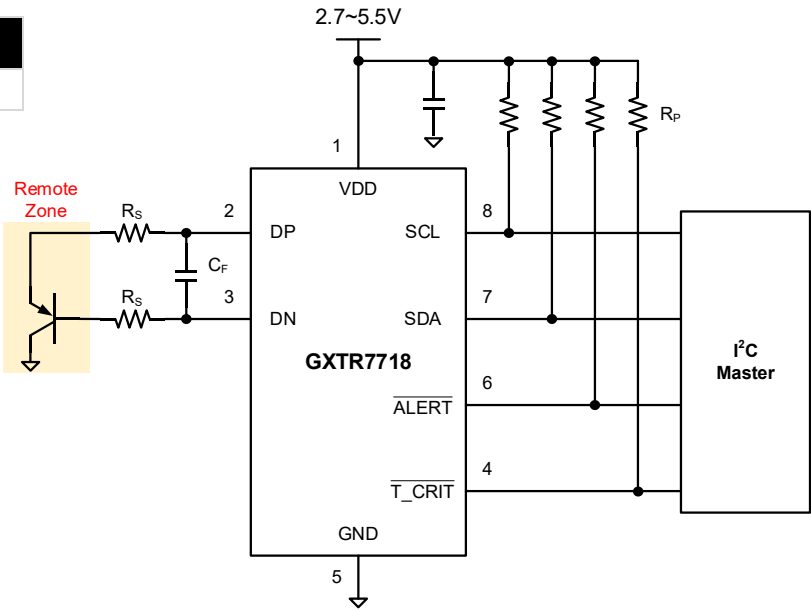
- MCU, GPU, FPGA, DSP, CPU
- Servers, Desktops, and Notebooks
- Industrial and Medical Equipment

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 ±1°C. GXTR7718 provide a measurement resolution of 0.0625°C and a measurement range of -55°C ~ 150°C. GXTR7718 are available in 3.0mm×3.0mm, 8 pin MSOP packages.

Figure 1 Typical Application Schematics



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