

## System Board 6721

# MAXREFDES1155: DUAL CHANNEL RTD/TC MEASUREMENT SYSTEM BASED ON MAX11410

 [Download Full Reference Design](#)

## OVERVIEW

MAXREFDES1155 is a configurable two-channel resistance temperature detector (RTD)/thermocouple (TC) measurement system. Each channel can be configured for either RTD or TC input. The RTD can be either a PT100 or a PT1000 connected in a 2-wire, 3-wire, or 4-wire configuration. The MAXREFDES1155 can support all types of thermocouples, using either an on-board temperature sensor or an RTD for cold-junction compensation.

## Key Features

- Highly accurate measurement
- Two channels
- Each channel can be configured for either RTD or TC input
- Supports 2-wire, 3-wire, and 4-wire RTD
- Supports all types of thermocouple
- Thermocouple with on-board temperature sensor for cold junction compensation
- Board-level calibration
- PMOD interface

## MAXREFDES1155 Hardware



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This board is not available for purchase.

## Designed, Built, Tested

This document describes the hardware as well as the firmware. This reference design has been built and tested.

## Design Resources

<a href="#">Schematic</a> <a href="#">Download</a>	<a href="#">Bill of Materials</a>	<a href="#">PCB Layout</a> <a href="#">Download</a>	<a href="#">Test Results</a> <a href="#">Download</a>	<a href="#">Firmware</a> <a href="#">Download</a>
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