



This version (28 Feb 2018 19:55) was **approved** by JeffW.
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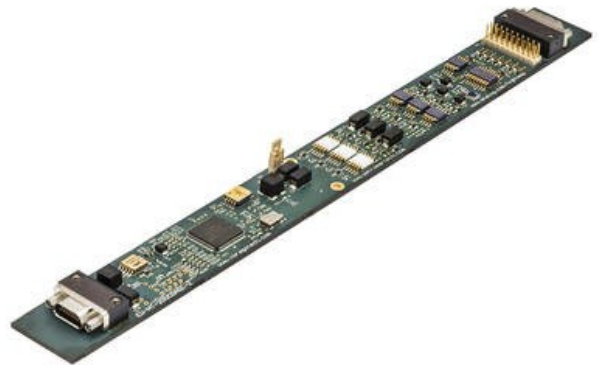
EV-HT-200CDAQ1

High Temperature Data Acquisition Reference Design Platform

The [EV-HT-200CDAQ1](#) is a complete system reference platform enabling precision data acquisition and control in extreme temperatures up to 200°C. Based upon the [AD7981](#) analog-to-digital SAR converter, this reference design demonstrates a full featured system with two high speed simultaneously sampled channels along with 8 additional multiplexed channels suitable for covering the acquisition requirements for many high temperature, harsh environment applications such as downhole oil and gas instrumentation. The data acquisition front end is connected to the VORAGO Technologies VA10800 ARM® Cortex®-M0 based microcontroller via multiple [SPI](#) ports. Once acquired, the data can be processed locally or transmitted via a [UART](#) or optional RS485 communications interface. In addition to the hardware, open source firmware uses FreeRTOS with optimized drivers and a data acquisition protocol with multiple modes of operation. Open source host software allows the users to connect to the board via [UART](#) to control acquisition modes, view data, log data and perform signal analysis. This platform is suitable as reference design, for rapid prototyping and lab testing of high temperature instrumentation systems.

This reference design is a collaboration between [ADI Alliance](#) members VORAGO Technologies and [Petromar Technologies](#) and is the latest addition to the growing ecosystem of products and solutions for high temperature applications from [ADI](#). For more info on high temperature solutions from [ADI](#), visit www.analog.com/hightemp.

1. [Reference Design Overview](#)
2. [Reference Design User's Guide](#)
3. [Hardware Design Notes](#)
4. [Test Summary](#)
5. [Firmware User's Guide](#)
6. [License Agreement](#)
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15,000

Problem Solvers

4,700+

Patents Worldwide

125,000

Customers

50+

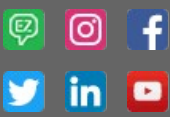
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