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Data Sheet

August 13, 2026

FLUKE

Fluke 2680A-FAI Fast Analog Input Module

Fluke Data Acquisition Systems (DAQ). Channels: 20 universal analog input channels per module, Sample Rate: Up to 1, Resolution: 16-bit with 0.04% accuracy (4.5 digits).



MODEL

Fluke 2680A-FAI

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2680A-FAI

LISTING

<https://aumictechlabs.com/products/2680a-fai-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 2680A-FAI Fast Analog Input Module is a high-speed data acquisition component that integrates into the Fluke 2680 Series Data Acquisition Systems. Each module provides 20 universal analog input channels capable of sampling at up to 1,000 readings per second per module, with system-level throughput exceeding 3,000 channels per second per chassis. The module delivers 16-bit resolution and 0.04% accuracy at 4.5 digits of resolution, making it ideal for precise capture of transient signals across diverse measurement applications.

Technical Specifications

Channels: 20 universal analog input channels per module; up to 120 channels in a single 2680A chassis (six modules); over 2,000 channels with linked chassis systems

Sample Rate: Up to 1,000 readings per second per module; system throughput exceeds 3,000 channels per second per chassis

Resolution: 16-bit with 0.04% accuracy (4.5 digits)

Input Voltage Range: Up to +50 V DC or 30 V AC RMS on all channels

Channel-to-Channel Isolation: 50 V maximum

Module Weight: 0.8 kg (1.8 lb)

Key Features

Supports universal input conditioning: DC Volts, AC Volts, RTD, Ohms, Thermocouple (types J, K, R, S, T, N, I, U, C, B), Thermistor, DC Current, AC

Current, and Frequency Compatible with transducers including load cells, pressure sensors, and displacement sensors Field Effect Transistor (FET) input architecture enables voltages well above standard 15 V industry levels 10BaseT and 100BaseT Ethernet connectivity with TCP/IP protocol support Typical Applications High-throughput transient signal acquisition Multi-channel data logging in laboratory and field environments Distributed test systems via network integration Mixed-signal measurement requiring varied sensor inputs Compatibility & Integration Designed for Fluke 2680A Data Acquisition System chassis. Each chassis accommodates up to six modules in dedicated slots, with five slots supporting analog input modules (FAI or PAI). Power requirements: 100–240 V AC (50–60 Hz) or optional 9 V DC to 45 V DC.

Features & description

From manufacturer datasheet

Features

- Fast analog input module for 2680A
 - Modular DAQ expansion
 - Compatible with Fluke 2680A mainframe
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Applications

- High-speed multi-channel data acquisition
- Expansion of 2680A systems with fast analog inputs
- Lab and industrial monitoring

2680AFAI Characteristics / Specifications

PARAMETER	VALUE
Model	2680A-FAI
Manufacturer	Fluke
Instrument Type	Fast Analog Input Module
Alias	2680A-FAI; Fluke 2680A-FAI
Host system	Fluke 2680A data acquisition system
Module type	Fast analog input Notes Confirm channel count, sample rate, and input ranges from the 2680A-FAI module documentation and host configuration.

2680AFAI Specifications

PARAMETER	VALUE
Key Features	- Fast analog input module for 2680A
Technical Specifications	Model: 2680A-FAI
Notes	Confirm channel count, sample rate, and input ranges from the 2680A-FAI module documentation and host configuration.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	2680A-FAI
Manufacturer	Fluke
Instrument Type	Fast Analog Input Module
Alias	2680A-FAI; Fluke 2680A-FAI

Host system: Fluke 2680A data acquisition system

Module type: Fast analog input

Notes

Confirm channel count, sample rate, and input ranges from the 2680A-FAI module documentation and host configuration.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.