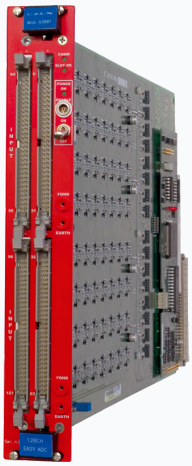
A3801A

128 Channel Temperature Sensor Board

128	-45 ÷ +125 °C	0.1 °C
No. of Channels	Input Range	Resolution

The CAEN Mod. A3801A is a 128-channel temperature ADC board belonging to the EASY (Embedded Assembly SYstem) family, designed to operate in magnetic fields and radiation environments. Housed in a double-width EASY module, it can be installed directly in the experimental area, close to detectors and front-end electronics.



The board digitizes the temperature values sensed by Analog Devices AD592 sensors, and also provides their power supply, so no external source is needed to bias the sensors.

The input range is -45 ÷ +125 °C with a 0.1 °C LSB, and all 128 channels are converted in 2 s. Inputs are available on standard flat cable connectors.

Product Highlights

- Magnetic field and radiation tolerant
- 128 input channels
- -45 ÷ +125 °C range
- 0.1 °C LSB
- 2s conversion rate
- Flat cable input connectors

Technical Specifications

Input Range	-45 ÷ +125 °C
LSB	
0.1 °C	

CAEN
Tools for Discovery

Integral non linearity	0.1% of FSR
Interchannel isolation	60 dB
Conversion rate	2 s (for all channels)
Temperature stability	0.5 LSB/°C
Weight	1kg

Ordering Information

ORDERING CODE	DESCRIPTION
WE3801AXAAAA	A3801A – EASY3000 128 Channel Temp. ADC Board

 — © 2026 CAEN S.p.A. All rights reserved. Specifications are subject to change without notice.