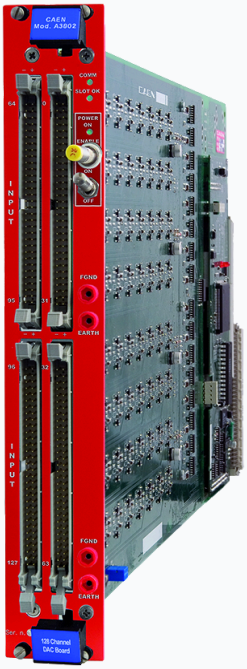
A3802

128 Channel DAC Board

128	Std.Flat	10
No. of Channels	Connectors	No. max of boards per crate

The A3802 is a 128-channel DAC board in the EASY (Embedded Assembly SYstem) family, designed for operation in magnetic fields and radiation environments. It provides 128 independent 0 ÷ -4 V outputs at up to 4 mA, with 12-bit voltage set and monitor resolution. Channels are arranged in 16 independently enabled groups of 8; each group is automatically switched off when |Vsum − ΣV0set| > 0.5 V. Housed in a double-width EASY module with flat cable output connectors, it suits applications such as discriminator threshold generation for front-end electronics.



CAEN
Tools for Discovery

Overview

Product Highlights

- EASY Subsystem DAC Board
- Magnetic field and radiation tolerant
- 128 -4 V /4 mA channels
- 12 bit Voltage Set/Monitor resolution

Product Description

The CAEN Mod. A3802 is a 128-channel DAC board belonging to the EASY (Embedded Assembly SYstem) family, designed to operate in magnetic fields and radiation environments. It can therefore be installed directly in the experimental area, close to detectors and front-end electronics.

The board provides 128 independent output channels, each delivering 0 ÷ -4 V with up to 4 mA, with 12-bit resolution on both voltage setting and monitoring. This makes it well suited to applications such as discriminator threshold generation for front-end electronics, where large numbers of channels must be individually configured.

Channels are organized in 16 groups of 8 channels each, which can be enabled independently. As a safety feature, the board continuously compares the monitored sum of the output voltages of each group (Vsum) with the sum of the corresponding set values (ΣV0set): if the difference exceeds 0.5 V (|Vsum − ΣV0set| > 0.5 V), the group is automatically turned off.

Housed in a double-width EASY module, the A3802 features flat cable output connectors.

The A3802 has been superseded by the A5802, recommended for new designs.

AT A GLANCE

No. of Channels	**128**
Connectors	**Std.Flat**
No. max of boards per crate	**10**
Width (slots)	**2**
Max Power per Channel	**16 mW**
Vset/Vmon Resolution	**12 bit**

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Technical Specifications

Polarity	Negative
Output Voltage	0 ÷ -4 V
Max. Output Current	4 mA
Voltage Set / Vsum Mon Resolution	12 bit
Vset Accuracy	0.1% of Vset ± 2mV
Setting Time	1 ms
Ripple	< 5 mVpp measured on 10Hz to 15 MHz frequency band

Ordering Information

ORDERING CODE	DESCRIPTION
WE3802XAAAAA	A3802 – EASY3000 128 Channels DAC 0-4 V 4 mA 12 bit

1. Ordering codes and descriptions are reproduced from the product record. Availability is confirmed at order entry.

Related Products

A3501 — 12 Channels 100 V / 1 mA Power Supply Board

A3512 — 6 Channel 12 kV / 1 mA Power Supply Board

A3535 — 32 Channel 3.2 kV / 0.5 mA / 1.1 W Board

A3540 — 12 Channel 4 kV / 1 mA Power Supply Board

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