

The **V1250** is a 16 channel differential to single ended signal converter in a 1-unit wide VME 6U form factor. It provides differential inputs (34-pin 2.54mm header,  $Z_{diff} = 100 \Omega$ ) and single ended outputs (coaxial LEMO,  $R_{out} = 50 \Omega$ ). Although the V1250 is a general purpose converter, it is best suited for the conversion of signals coming from charge sensitive preamplifiers, such as the A1442 (typ. rising edge > 10 ns). The analog bandwidth is therefore set to 30 MHz in order to optimize the signal to noise ratio.

## Technical Specifications

### Form Factor

1-unit wide VME 6U

### Inputs

16 channels, 100 $\Omega$  terminated  
34-pin male header connector  
(pitch - mating: 2.54 mm)

### Outputs

16 LEMO outputs  
50  $\Omega$  series output resistance

### Gain

x1 (output signal terminated to 50  $\Omega$ )  
x2 (output signal not terminated)

### Input Range

$\pm 2 V_{pp}$  ( $Z_{diff} = 100 \Omega$ )

### Output Range

$\pm 4 V$  (output signal not terminated)  
 $\pm 2 V$  (output signal terminated to 50  $\Omega$ )

### Bandwidth

DC to 30 MHz

### Output Noise


< 480  $\mu V$  RMS (measured with disconnected inputs and outputs terminated to 50  $\Omega$ )


### Power Requirements

120 mA @ +5V  
130 mA @ -12V  
+12V not used



## Safety Notices

 **V1250 does not support live insertion (hot swap)!**  
Power off the VME crate before to remove or insert the board!

 **Remove all cables from the front panel before extracting!**

## Ordering Option

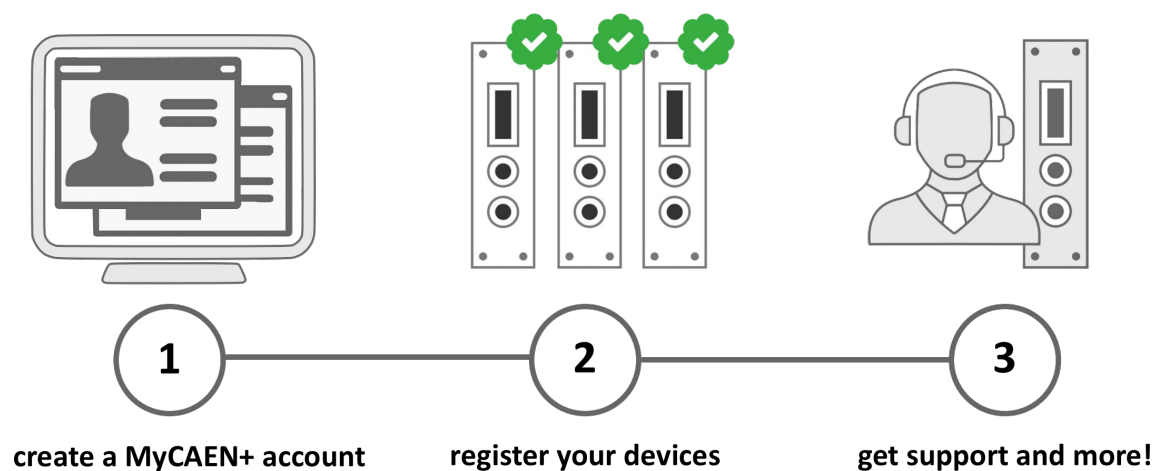
Ordering code	Version	Description
WV1250XAAAAA	V1250	16 ch Differential to Single Ended signal converter



## Register your device

Register your device to your **MyCAEN+** account and get access to our customer services, such as notification for new firmware or software upgrade, tracking service procedures or open a ticket for assistance. **MyCAEN+** accounts have a dedicated support service for their registered products. A set of basic information can be shared with the operator, speeding up the troubleshooting process and improving the efficiency of the support interactions.

**MyCAEN+** dashboard is designed to offer you a direct access to all our after sales services. Registration is totally free, to create an account go to <https://www.caen.it/become-mycaenplus-user> and fill the registration form with your data.





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