

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, $Z_{\text{diff}} = 100 \Omega$) and single ended outputs (coaxial LEMO, $R_{\text{out}} = 50 \Omega$). 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, 100Ω terminated
34-pin male header connector
(pitch - mating: 2.54 mm)

Outputs

16 LEMO outputs
 50Ω series output resistance

Gain

$x1$ (output signal terminated to 50Ω)
 $x2$ (output signal not terminated)

Input Range

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

Output Range

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

Bandwidth

DC to 30 MHz

Output Noise

< 480 μV RMS (measured with disconnected inputs and outputs terminated to 50Ω)

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

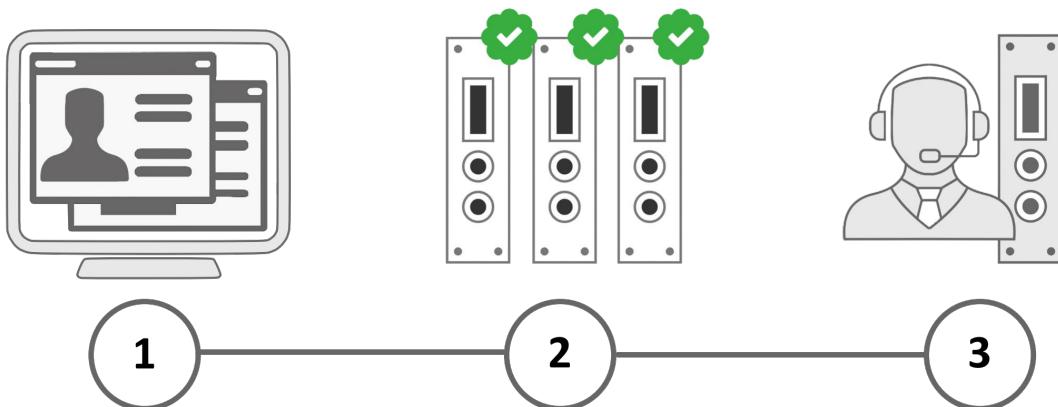
Ordering code	Version	Description
WV1250XAAAAA	V1250	16 ch Differential to Single Ended signal converter



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