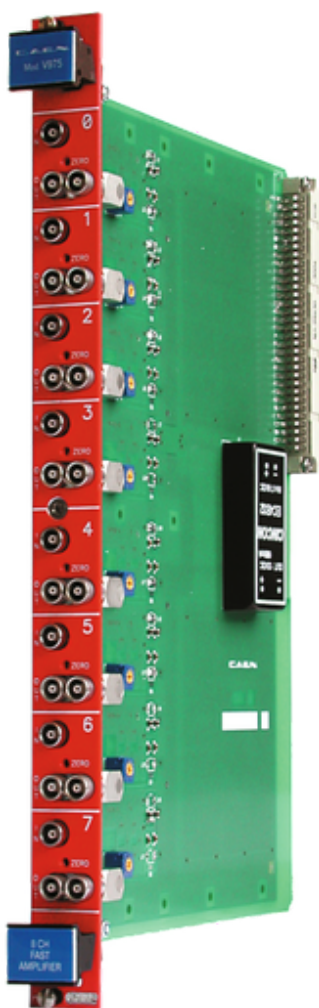
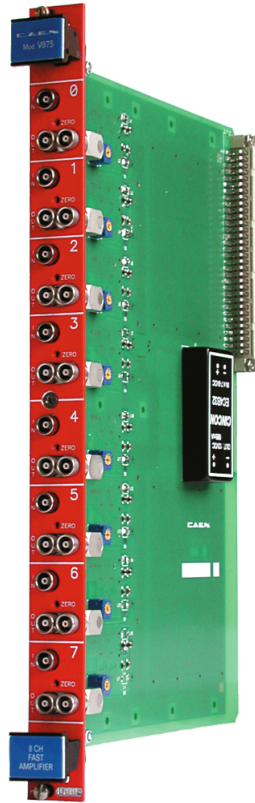


# V975

## 8 Channel Fast Amplifier



## Features



- Input bandwidth up to 250 MHz
- x10 Fixed Gain
- 50 Ohm input impedance
- $\pm 2$  V output dynamics
- Drives 50 Ohm loads
- Cascadeable channels
- Rise/fall time  $< 1.5$  ns with a 25 mV unipolar input amplitude
- I/O delay  $< 3$  ns

## Description

The **Mod. V975** is an 8 channel fast rise time amplifier housed in a 1-unit VME module; each channel features a fixed voltage gain of 10. Channels are bipolar, non-inverting and can be cascaded in order to obtain larger gain values. Input bandwidth is 250 MHz for signals up to 50 mVpp and decreases for larger ones (up to 110 MHz @ 400 mVpp). Each channel is provided with three LEMO 00 connectors, one for the input and two bridged for the output. The board features a  $\pm 2$  V output dynamics. Screw-trimmers (one per channel) allow the offset calibration which operates over a  $\pm 25$  mV range. The features include an output short circuit protection.

## Technical Specifications

### Packaging

1U-wide VME unit

### Voltage gain

10

### Rise time

≤ 1.5 ns (unipolar input, ±25 mV max. amplitude)

### Band width

- ±25 mV input signal: 0÷250 MHz
- ±200 mV input signal: 0÷110 MHz

### Output dynamics

±2 V

### Offset nulling range

±25 mV (measured with 0 Ohm termination on input)

### Max input amplitude

200 mV

### Inputs channels

8, DC coupled, 50 Ohm ± 2% impedance

### Output channels

8 with Fan-Out of two, drive 50 Ohm load

### Noise

< 50 µV RMS (referred to the input)

### Interchannel insulation

50 dB

### VSWR

< 1.3

### I/O Delay

< 3 ns

### Offset uniformity

- ±4 mV (typical)
- ±12 mV (maximum)

## Ordering Options

Code	Description	
WV975XBAAAAA	V975B - 8 Channel Fixed Gain Fast Amplifier (no JAUX)	RoHS

## Related Products

### VME8011



7U 21 Slot VME64 Low Cost Crate

### VME8004X



2U 4 Slot VME64X Mini Crate

### VME8100



8U 21 Slot VME64/64X Enhanced Crate Series

### NV8020A



7U CRATE VME/NIM 8 slot VME64 365W, 5 slot NIM 150W

### VME8004B



2U 4 Slot VME64 Mini Crate

## VME8008X



4U 8 Slot VME64X Mini Crate

## VME8010



7U 21 Slot VME64 Low Cost Crate

## VX4718



VME to USB 3.0/Ethernet/Optical Link Bridge

## μ-crate



Desktop single-slot VME64X Crate

## VME8002



5U 9 Slot VME64 Mini Crate

## VME8200



9U 21Slot VME64X Enhanced Crate series

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## VME8008XB

## VME8001



1U 2 Slot VME64 Mini Crate

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## V3718



VME to USB 2.0 / Optical Link Bridge

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## VX3718



VME64 to USB 2.0/Optical Link Bridge

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## VME8008B



4U 8 Slot VME64 Mini Crate

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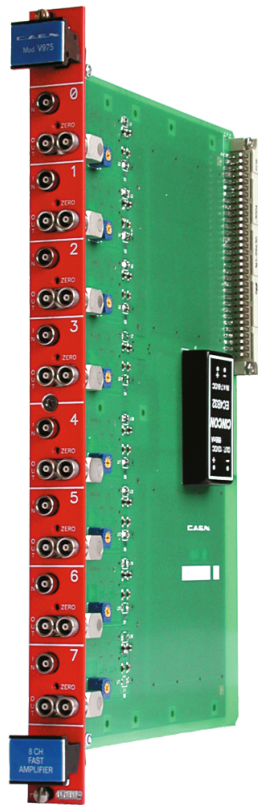
## V4718



VME to USB 3.0/Ethernet/Optical Link Bridge

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## Gallery



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