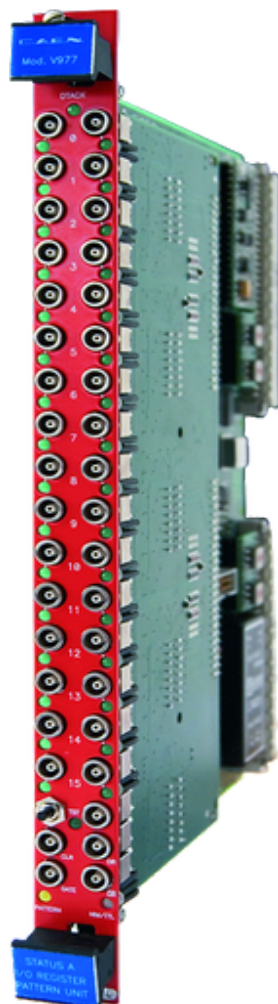
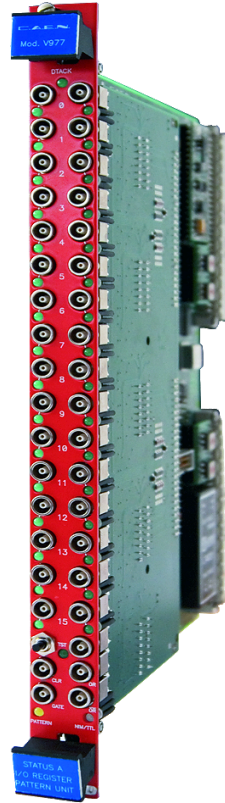


V976

Quad 4 Fold AND/OR/MAJ, NIM- TTL TTL-NIM Translator, Fan-In Fan-Out



Features



- Four independent sections with four channels each
- TTL and NIM inputs automatically detected
- NIM/TTL selectable output level
- AND, OR, Majority function with selectable number of inputs
- Logic Fan In / Fan Out
- Selectable direct or negated output

Description

The CAEN **Mod.V976** is a 1-unit VME module housing four 4-input Coincidence, Fan in/Fan out and NIM – TTL Adapter sections. The module has 16 inputs and 16 outputs on LEMO 00 connectors. Each section can either operate as a 4 channel NIM-to-TTL or TTL-to-NIM translator or perform the AND/OR logic functions. It is possible to use two or four sections together to obtain an 8 or 16 input majority. The module works also as Fan out and supports the Majority logic function. The board recognises automatically NIM and TTL signals (no input-type selection is necessary).

In more detail, the supported functions are the following:

- 16 ch TTL – NIM, NIM – TTL Translator
- 8 ch TTL – NIM + 8 ch NIM – TTL Translator
- 4 X (2, 3, 4 in / 4 out AND/OR)
- 2 X (8 in / 8 out Majority)
- 16 in / 16 out Majority
- 2 X (1 to 8) Fan out
- 1 to 16 Fan out

The desired function can be selected via front-panel and internal switches.

Some extra functions can be obtained by cascading properly the module's sections.

The output signals are equal in duration to the time during which the performed logical operation has a TRUE status. The output width cannot thus be programmed.

Input signals can be indifferently either NIM or TTL levels; the outputs can be programmed to provide either NIM or TTL levels as well (either normal or negated, selectable via front panel switches).

The presence of incoming input signals is signalled by 16 green LEDs (one per channel).

The Majority LEDs light up when the Majority is being performed.

Technical Specifications

Packaging

1U-wide VME unit

Input channels

16 NIM/TTL levels, 50 Ω impedance

Output channels

16 NIM/TTL normal/negated levels (switchable), driving a 50 Ω load each

Min. coincidence width

2 ns

Min. input width

2 ns

Max. input frequency

150 MHz (translator mode, with NIM signals, normal output)

I/O delay

Translator: 9 ns; AND/OR: 11.5 ns

Double pulse resolution

8 ns

Output Rise/Fall Time

NIM: 1/2 ns; TTL: 2/2.5 ns

NIM signals

- $V_{0_{in}}$: 200 mV max, -250 mV min
- $V_{1_{in}}$: -600 mV max, 2V min
- $V_{0_{out}}$: -50 mV min
- $V_{1_{out}}$: -700 mV max

TTL signals

- $V_{0_{in}}$: 700 mV max, -200 mV min
- $V_{1_{in}}$: 5 V max, 1V min
- $V_{0_{out}}$: 30 mV max
- $V_{1_{out}}$: 2.4 V min

Power Requirements

- +5 V 2.4 A
- +12 V 20 mA

Ordering Options

Code	Description
WV976XBAAAAA	V976B - Quad 4 Fold AND/OR/MAJ, NIM-TTL TTL-NIMLevel Translator and Fan-In Fan-Out (no JAUX) RoHS

Related Products

VME8010



7U 21 Slot VME64 Low Cost Crate

VME8008B



4U 8 Slot VME64 Mini Crate

VME8004B



2U 4 Slot VME64 Mini Crate

NV8020A



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

VME8001



1U 2 Slot VME64 Mini Crate

VME8200



9U 21Slot VME64X Enhanced Crate series

VME8002



5U 9 Slot VME64 Mini Crate

VME8008X



4U 8 Slot VME64X Mini Crate

μ-crate



Desktop single-slot VME64X Crate

VME8004X



2U 4 Slot VME64X Mini Crate

VME8011



7U 21 Slot VME64 Low Cost Crate

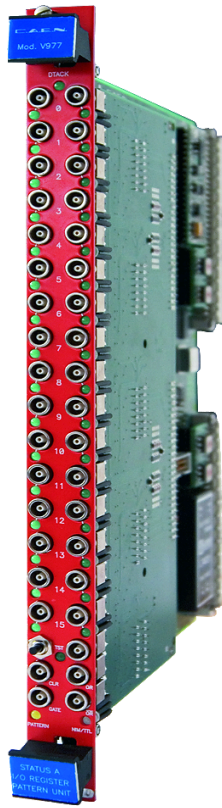
VME8100



8U 21 Slot VME64/64X Enhanced Crate Series

VME8008XB

Gallery



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