

N405

Triple 4-Fold Logic Unit/Majority with VETO



Features



- Three independent sections with 4 standard NIM inputs each
- AND, OR, MAJORITY function selectable for each section
- One auxiliary NIM output per section whose width is equal to the coincidence duration
- NIM shaped outputs with Fan Out of two
- One negated NIM shaped output per section
- One VETO input per section
- Front panel trimmer for output width adjustment on each section

Description

The **Mod. N405** is a one unit wide NIM module housing three independent sections that can be used either as logic unit or majority. The two modes are selectable via internal DIP switches.

Each section accepts **4 input signals**, a **VETO** input and provides 4 outputs (2 normal and 1 complementary, shaped, plus 1 linear). The linear output provides a signal whose width is equal to the time during which the input signals satisfy the conditions programmed via the front panel lever switches. The shaped output widths can be set via front panel trimmers in the range 6 ns to 800 ns.

- **LOGIC UNIT MODE**

The input signals can be disabled by means of a front panel lever switch. Each section can be programmed to perform either the AND or the OR functions via front panel switches. When only one input signal is enabled the section acts as a logic FAN-OUT independently from the selected mode.

- **MAJORITY MODE**

The front panel enable/disable lever switches are used to set the majority level. The AND/OR lever switch must be set in the AND position.

Technical Specifications

Packaging

One unit wide NIM module

IN

- Std. NIM level, 50 Ohm impedance
- Reflection coefficient: less than 6% for Std. NIM inputs of 2 ns risetime
- Minimum pulse width: 3.5 ns (FWHM)

VETO

- Std. NIM level, 50 Ohm impedance.
- Reflection coefficient: less than 6% for Std. NIM inputs of 2 ns risetime.
- Minimum width: 10 ns (FWHM). The VETO signal must precede the coincidence event by at least 3 ns.

OUT and /OUT

- Std. NIM level on 50 Ohm impedance
- Width ranges: 6 ns to 100 ns or 20 ns to 800 ns selectable via internal jumpers
- Rise/Falltime: 2 ns (10% to 90%)
- Input/Output delay: 14 ns \pm 2 ns

LIN

Std. NIM level on 50 Ohm impedance.

Width:

- when the J6 internal jumper is inserted, the linear output has the same width as the input coincidence duration;
- when the J6 internal jumper is not inserted, the linear output width is 3 ns.

Rise/Falltime: 2 ns (10% to 90%).

Input/Output delay: 12 ns \pm 2 ns.

AND/OR logic unit mode

- Double pulse resolution (OR): 4.5 ns
- Minimum coincidence overlap (AND): 3 ns

MAJORITY logic unit mode

If "n" are the connected input signals ($1 < \text{or} = n < \text{or} = 4$) it is possible to set any majority level "m" with $1 < \text{or} = m < \text{or} = n$

Ordering Options

Code	Description
WN405XAAAAAA	N405 - Triple 4-Fold Logic Unit/Majority with Veto RoHS

Related Products

NIM8305



2 Slot Switching 450 W Mini Crate

NIM8304



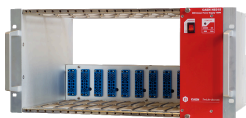
7U 12 slot smart fan unit Switching 2000 W Crate

NV8020A



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

NIM8302



5U 10 slot 150 W Compact Crate

NIM8302P



5U 5 slot 150 W Portable Crate

NIM8306



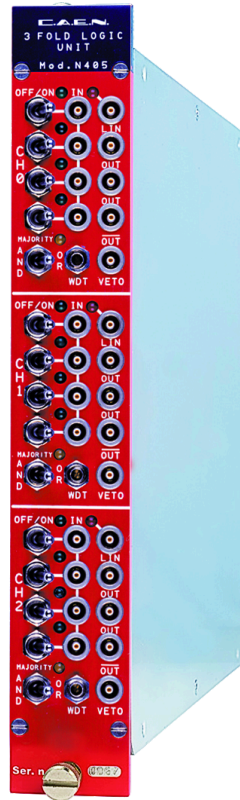
2 Slot Switching 750 W Mini Crate

NIM8303



5U 12 slot 300/600 W Crate

Gallery



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