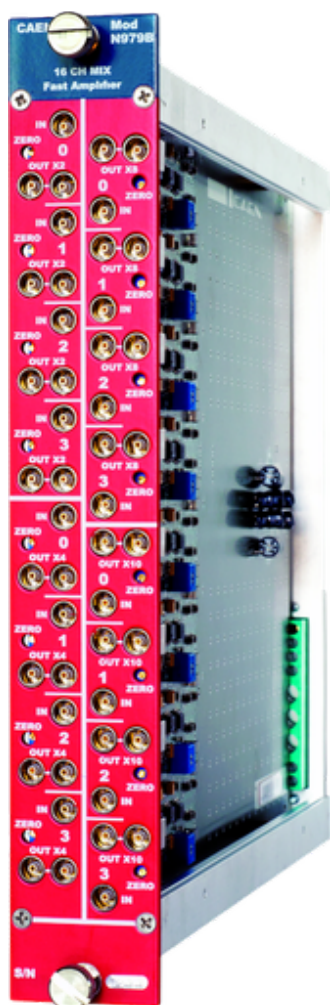
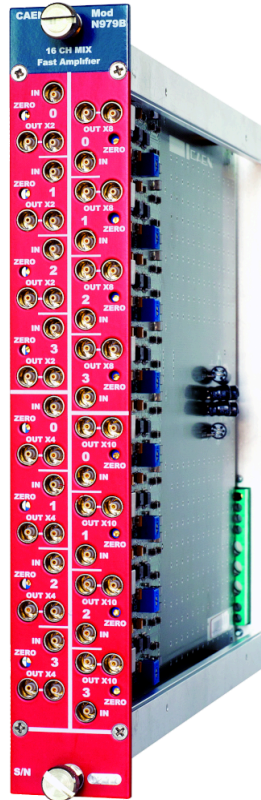


N979B

16 Channel Mixed Gain Fast Amplifier



Features



- 4 x 4 ch. with different Fixed Gain: x2, x4, x8, x10.
- Input bandwidth up to 250 Mhz
- 50 Ohm input impedance
- ± 2 V output dynamics
- 50 Ohm loads driven
- Cascadeable channels
- Rise/fall time smaller than 1.5 ns
- I/O delay smaller than 3 ns

Description

The Model N979B is a 16 channel fast rise time amplifier housed in a 1-unit NIM module; N979B channels are divided into 4 groups with different fixed gain: x2, x4, x8, x10. Channels are bipolar, non-inverting. Channels 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 130 MHz @ 300 mVpp). Each channel is provided with three LEMO 00 connectors, one for the input and two bridged for the output. The board features a ± 2 V output dynamics. 16 screw-trimmers (one per channel) allow the offset calibration which operates over a ± 30 mV range. The features include an input overvoltage protection.

Technical Specifications

Packaging

1U-wide NIM unit

Voltage gain

$2 \pm 6\%$; $4 \pm 6\%$; $8 \pm 6\%$; $10 \pm 6\%$;

Rise time

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

Band width (gain: 10x)

± 25 mV input signal: $0 \div 250$ MHz
 ± 150 mV input signal: $0 \div 130$ MHz

Output dynamics

± 2 V

Offset uniformity

± 4 mV (typical)
 ± 12 mV (maximum)

Offset nulling range

± 30 mV (measured with 0 Ohm termination on input)

Total Gain / Max input amplitude (mV)

2x -1000 \div +1000
4x -500 \div +500
8x -250 \div +250
10x -200 \div +200

Inputs channels

16, DC coupled, 50 Ω \pm 2% impedance

Output channels

16 with Fan-Out of two, drive 50 Ω load

Noise (gain: 10x)

≤ 50 μ V RMS (referred to the input)

Interchannel insulation

50 dB

Input reflections

$\leq 10\%$

I/O Delay

≤ 3 ns

Ordering Options

Code	Description
WN979XBAAAAA	N979B - 16 Channel Mixed Gain Fast Amplifier RoHS

Related Products

NIM8305



2 Slot Switching 450 W Mini Crate

NIM8302P



5U 5 slot 150 W Portable Crate

NIM8303



5U 12 slot 300/600 W Crate

NV8020A



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

NIM8306



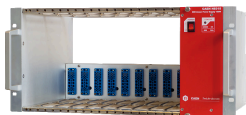
2 Slot Switching 750 W Mini Crate

NIM8301



7U 12 slot smart fan unit 300/600 W Crate

NIM8302

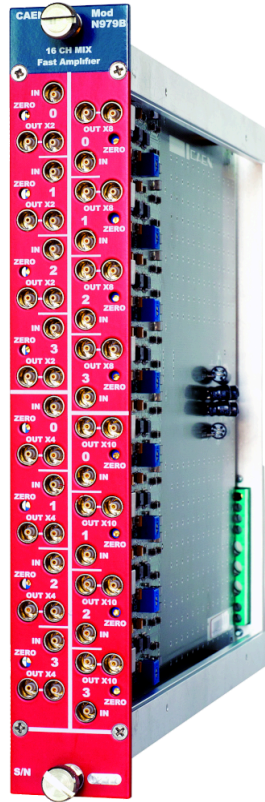


5U 10 slot 150 W Compact Crate

NIM8304



7U 12 slot smart fan unit Switching 2000 W Crate



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