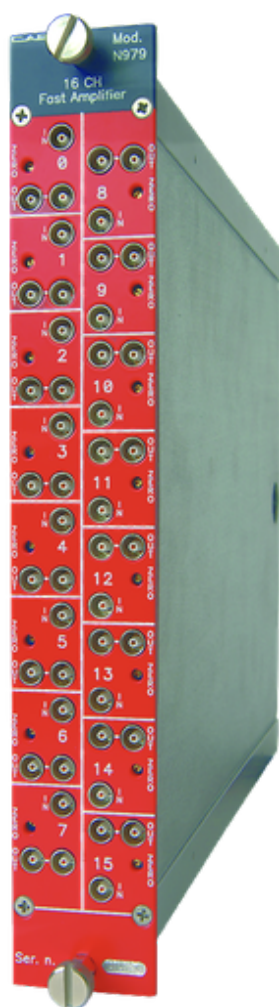
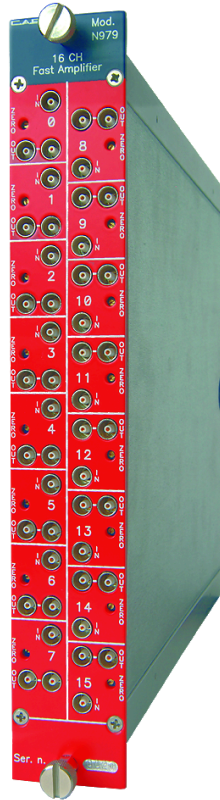


N979

16 Channel Fast Amplifier



Features



- x10 Fixed Gain (Optional in x2 ÷ x9 range)
- Input bandwidth up to 250 Mhz
- 50 Ohm input impedance
- ± 2 V output dynamics
- 50 Ohm loads driven
- Cascadable channels
- Rise/fall time smaller than 1.5 ns
- I/O delay smaller than 3 ns

Description

The Model N979 is a 16 channel fast rise time amplifier housed in a 1-unit NIM module; each channel features a **fixed voltage gain of 10**; fixed gain values in the **x2 ÷ x9 range** (gain step = 1) are available on request. 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

$10 \pm 6\%$

Rise time

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

Band width (gain: 10x)

± 25 mV input signal: 0÷250 MHz
 ± 150 mV input signal: 0÷130 MHz

Output dynamics

± 2 V

Offset uniformity

± 4 mV (typical)
 ± 12 mV (maximum)

	Total Gain	Max input amplitude (mV)
2x	-1000 ÷ +1000	
3x	-667 ÷ +667	
4x	-500 ÷ +500	
5x	-400 ÷ +400	
6x	-333 ÷ +333	
7x	-286 ÷ +286	
8x	-250 ÷ +250	
9x	-222 ÷ +222	
10x	-200 ÷ +200	

Offset nulling range

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

Inputs channels

16, DC coupled, 50 $\Omega \pm 2\%$ impedance

Output channels

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

Noise (gain: 10x)

≤ 50 μ V RMS (referred to the input)

Interchannel insulation

50 dB

Input reflections

$\leq 10\%$

I/O Delay

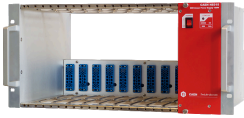
≤ 3 ns

Ordering Options

Code	Description	
WN979XAAAAAA	N979 - 16 Channel Fixed Gain Fast Amplifier	RoHS
WPERS0097902	N979 Customization - Total Gain = x2	RoHS
WPERS0097903	N979 Customization - Total Gain = x3	RoHS
WPERS0097904	N979 Customization - Total Gain = x4	RoHS
WPERS0097905	N979 Customization - Total Gain = x5	RoHS
WPERS0097906	N979 Customization - Total Gain = x6	RoHS
WPERS0097907	N979 Customization - Total Gain = x7	RoHS
WPERS0097908	N979 Customization - Total Gain = x8	RoHS
WPERS0097909	N979 Customization - Total Gain = x9	RoHS

Related Products

NIM8302



5U 10 slot 150 W Compact Crate

NIM8306



2 Slot Switching 750 W Mini Crate

NIM8304



7U 12 slot smart fan unit Switching 2000 W Crate

NIM8305



2 Slot Switching 450 W Mini Crate

NV8020A



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

NIM8303



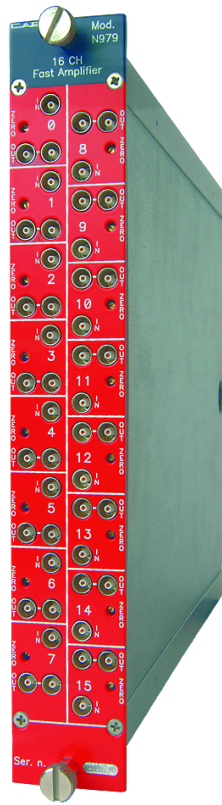
5U 12 slot 300/600 W Crate

NIM8302P



5U 5 slot 150 W Portable Crate

Gallery



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