

## N625

# Quad Linear FAN-IN FAN-OUT



# Features



- Four independent sections
- Bipolar inputs
- Four 4 Input + 4 Output Fan in/Fan out sections
- 1 Channel Discriminator featured
- Inverting or non-inverting mode independently selectable on each section
- 100 MHz bandwidth

## Description

The **Mod. N625** is a 1-unit NIM module which houses four 4 Input + 4 Output *Fan in/Fan out* sections and a **Single Channel Discriminator**.

Each Fan in/Fan out section produces on all its output connectors, the sum of the signals fed to the inputs. Fan in/Fan out inputs are bipolar, while the output can be either inverting or non inverting (jumper selectable independently for each section). Both input and output signals are DC coupled. Maximum input amplitude is  $\pm 1.6$  V. Moreover each Fan in/Fan out section features a screwdriver trimmer which allows the DC offset adjustment. The discriminator channel has one DC coupled input (polarity is jumper selectable), the threshold is screwdriver adjustable and monitorable via test point; the output is NIM standard, its width is screwdriver adjustable as well. Front panel LEDs allow to monitor all the mode, gain and polarity adjustments performed via internal jumpers.

## Technical Specifications

### Packaging

1 unit NIM module

### Inputs

50 Ohm impedance; DC coupled, bipolar

### Reflection

Less than 4% for inputs of 2 ns risetime

### Zero adjustment

$\pm 100$  mV

### Outputs

DC coupled. All the unused inputs and outputs must be terminated for optimum output shape.

### Max. output amplitude

$\pm 1.6$  V

### Integral non-linearity

$\pm 1\%$  up to 1 V

### Interchannel insulation

<40 dB

### Input band width

100 MHz

### DC offset stability

<100  $\mu\text{V}/^\circ\text{C}$

### Input/output delay

$4 \pm 1$  ns

### Noise

< 300  $\mu\text{V}$  rms

### Discriminator input

DC coupled on either leading or trailing edge (jumper selectable), 50 Ohm; 90 MHz max. frequency

### Discriminator max. input voltage

$\pm 5$  V

### Discriminator min. detectable input

$\pm 10$  mV

### Discriminator threshold range

$\pm 1200$  mV

### Discriminator out

Std. NIM level, provided across a 50 Ohm load, non updating; two width ranges (adjustable): 5÷70 ns and 15÷600 ns

### Discriminator I/O delay

<11 ns

### Power Requirements

- +12 V : 110 mA
- -12V : 115 mA
- +6V : 230 mA
- -6V : 225 mA

## Ordering Options

Code	Description
WN625XAAAAAA	N625 - Quad Linear Fan-In Fan-Out <span data-bbox="1292 246 1372 302">RoHS</span>

## Related Products

### NIM8305



2 Slot Switching 450 W Mini Crate

### NIM8304



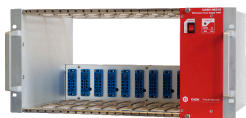
7U 12 slot smart fan unit Switching 2000 W Crate

### 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

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## NIM8303



5U 12 slot 300/600 W Crate

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