N625

Quad Linear FAN-IN FAN-OUT

NIM	4	Linear
Package	No. of Sections	Type

The N625 is a 1-unit NIM module combining four independent 4-input/4-output linear FAN-IN/FAN-OUT sections with a single-channel discriminator. Each section sums the signals applied to its bipolar, DC-coupled inputs and reproduces the sum on all outputs, with independently jumper-selectable inverting or non-inverting operation, ±1.6 V maximum input amplitude and 100 MHz bandwidth. Screwdriver trimmers provide DC-offset adjustment. The discriminator has a DC-coupled input with jumper-selectable polarity, adjustable and monitorable threshold, and screwdriver-adjustable NIM output width.

Overview

Product Highlights

- 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

Product 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 Discriminato**r. 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 ±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.

AT A GLANCE

Package	**NIM**
No. of Sections	**4**
Type	**Linear**
Inputs per Section	**4 Bipolar**
Outputs per Section	**4 Bipolar**
I/O Delay (ns)	**< 4**

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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	±100 mV
Outputs	DC coupled. All the unused inputs and outputs must be terminated for optimum output shape.
Max. output amplitude	± 1.6 V
Integral non-linearity	± 1% up to 1 V
Interchannel insulation	<40 dB
Input band width	100 MHz
DC offset stability	<100 µV/°C
Input/output delay	4 ± 1 ns
Noise	< 300 µV rms
Discriminator input	DC coupled on either leading or trailing edge (jumper selectable), 50 Ohm; 90 MHz max. frequency
Discriminator max. input voltage	± 5V
Discriminator min. detectable input	±10 mV
Discriminator threshold range	±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

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Ordering Information

ORDERING CODE	DESCRIPTION
WN625XAAAAAA	N625 – Quad Linear Fan-In Fan-Out

1. Ordering codes and descriptions are reproduced from the product record. Availability is confirmed at order entry.

Related Products

NIM8302 — 5U 10 slot 150 W Compact Crate

NIM8303 — 5U 12 slot 300/600 W Crate

NIM8305 — 2 Slot Switching 450 W Mini Crate

NV8020A — 7U CRATE VME/NIM 8 slot VME64 365W, 5 slot NIM 150W

NIM8302P — 5U 5 slot 150 W Portable Crate

NIM8304 — 7U 12 slot smart fan unit Switching 2000 W Crate

NIM8306 — 2 Slot Switching 750 W Mini Crate

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