

N638

16 Channel NIM-ECL/ECL-NIM Translator and Fan Out



Features



- 16 independent NIM to ECL/NIM and ECL to NIM/ECL channels
- NIM fan-out of two
- 300 MHz maximum operating frequency
- 2 COMMON IN input with a fan-out of 16 NIM and 8 ECL
- I/O delay from 1.5 to 3.5 ns, depending on input type

Description

The **Mod. N638** is a **standard NIM module** housing **16 independent logic level translators**.

Each of the 16 channels accepts a NIM or an ECL signal and provides two NIM and one ECL outputs. The NIM and ECL inputs of each channel are ORed prior to fan-out.

The maximum operating frequency is 300 MHz.

Two couples of front panel input bridged connectors accept two COMMON IN NIM signals; each common signal allows the use of the module as a fan-out of 16 NIM and 8 ECL signals.

Technical Specifications

Packaging

1-unit wide NIM module

NIM Inputs

NIM logic levels, 50 Ω impedance

ECL Inputs

ECL logic levels, 110 Ω impedance

COMM inputs

NIM Level, high impedance

Reflections

< 3%, tested with NIM input signals featuring: 0.8 ns rise/fall time, 50 ns FWHM, 1 KHz frequency

NIM A, B outputs

NIM levels on 50 Ω impedance

ECL outputs

Differential ECL levels on 110 Ω impedance

Output rise/fall time

< 0.5 ns (measured on NIM output)

Min. input FWHM

1.65 ns

Max. input frequency

300 MHz (NIM), 250 MHz (ECL), 200 MHz (COMM)

I/O delay (ECL to NIM)

<2 ns

I/O delay (NIM to ECL)

<3 ns

I/O delay (COMM to ECL)

<3.5 ns

I/O delay (COMM to NIM)

<3.5 ns

Ordering Options

| Code | Description |
|--------------|--|
| WN638XAAAAAA | N638 - 16 Channel NIM-ECL/ECL-NIM Translator and Fan Out RoHS |

Related Products

NIM8305



2 Slot Switching 450 W Mini Crate

NIM8303



5U 12 slot 300/600 W Crate

NV8020A



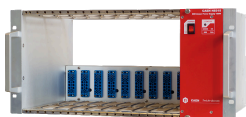
7U CRATE VME/NIM 8 slot VME64 365W, 5 slot NIM 150W

NIM8302P



5U 5 slot 150 W Portable Crate

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



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