



- **8 NIM-TTL, 8 TTL-NIM translator channels.**
- **Less than 10 ns input/output delay.**
- **60 MHz max. operating frequency.**
- **No duty-cycle limitations.**

### Software

NO

### Ordering code

WN89XXAAAAAA

N89 - NIM-TTL-NIM Adapter

### Compare with other Products

#### Compare with other Translators

Model	Package	Function	Description
N638	NIM	Translators	16 Channel NIM-ECL/ECL-NIM Translator and Fan Out
<b>N89</b>	<b>NIM</b>	<b>Translators</b>	<b>NIM - TTL - NIM Adapter</b>
V1495	VME	Translators	General Purpose VME Board
V538A	VME	Translators	8 Channel NIM-ECL/ECL-NIM Translator
V976	VME	Translators	Quad 4 Fold AND/OR/MAJ, NIM-TTL TTL-NIM Translator, Fan-In Fan-Out

## NIM - N89

### NIM - TTL - NIM Adapter

The Mod. N89 is a one unit wide NIM module housing two sections of 4 NIM to TTL converters and two sections of 4 TTL to NIM converters. All inputs are DC coupled.

On each section, a front panel switch allows logic inversion of the output signals.

The unit is capable of driving remote 50 Ohm loads with minimum signal degradation. Fast rise and fall times (2 ns) ensure reliable performance at minimum pulse width (10 ns) and maximum frequency (60 MHz).

### Technical Specifications Table

<b>Packaging</b>	One unit wide NIM module.
<b>Inputs</b>	8 channel, 50 Ohm impedance
<b>Min. input pulse width</b>	10 ns (NIM-TTL) ; 12 ns (TTL-NIM)
<b>Output pulse amplitude</b>	> 2 V (NIM-TTL); 800 mV (TTL-NIM)
<b>Rise- and fall-time</b>	< 3 ns (NIM-TTL); < 2 ns (TTL-NIM)
<b>Input-Output delay</b>	< 8 ns (NIM-TTL); < 10 ns (TTL-NIM)
<b>Max. operating frequency</b>	60 MHz (NIM-TTL); 40 MHz (TTL-NIM)

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