

# DDR3 Mixed Signal Oscilloscope (MSO) DIMM Interposer

For use with Tektronix MSO (Mixed Signal Oscilloscope)

- Provides quick and easy interface between MSO digital channels and DDR3 DIMM Slot
- Designed for speeds of DDR3-2133+
- Complete solution provides high fidelity analysis of the DDR3 Bus while triggering on specific Address/Commands
- Trigger on digital channels and probe/correlate specific channels with oscilloscope inputs
- Combine with Nexus Oscilloscope Component Interposers for ultra high fidelity analog analysis



Nexus Technology recommends DDR3 slot interposers for applications where the customer must have the greatest flexibility in the probing of different DDR3 DIMMs.

This interposer is an extender design and does not require a dedicated DIMM slot. The logic analyzer connects above the normal DIMM height so that there is no mechanical interference with adjacent DIMMs.

This is a passive interposer with no added buffers to conceal system performance.

## Interposer Design

A Mixed Signal Oscilloscope (MSO) is a unique combination of an oscilloscope and digital channels similar to those found on a Logic Analyzer. The digital channels provide the ability to look at a wide bus such as a Memory, Address, or Command bus and trigger on specific commands or addresses. Once triggered, the digital channels are correlated with the oscilloscope channels providing high speed oscilloscope data acquired at the Command/Address trigger point.

The DDR3 MSO DIMM Interposer provides a quick and easy interface between the MSO digital channels and a DDR3 DIMM slot. The intended use of this interposer is to provide DDR3 bus visibility and DDR3 bus triggering of the DDR3 Address/Command bus.

## Bus Triggering and Visibility

In general, the DDR3 MSO DIMM Interposer can be used to acquire the Address/Command bus using the MSO digital channels. When used for bus visibility, this quick and easy interface facilitates bus acquisition focused on areas of interest using the MSO digital trigger capability.

Triggering the digital channels on specific Address/Commands is very powerful for visibility of the bus transactions. To accurately analyze the characteristics of a signal, it is recommended that you probe at the memory component. An easy interface to the memory components is provided with Nexus Technology's DDR3 Memory Component Interposers.

[HTTP://WWW.NEXUSTECHNOLOGY.COM/PRODUCTS/COMPINTR/](http://www.nexustechology.com/products/compintr/). This enables analog analysis using the oscilloscope channels of the MSO.

If a DIMM instrumented with an Oscilloscope Component Interposer is not available, an alternative is to use the probe points provided on the base of the DDR3 MSO DIMM Interposer.



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## Product Configuration

Nomenclature	Description
NEX-DDR3INTR-MSO	DDR3 MSO Dimm Interposer

## Product Support

Product Support is critical to your success. Our engineering staff can provide expert training and support tailored to your specific needs. Please contact us by telephone, email or mail as listed below. Normal business hours are 9:00 – 5:00 EDT/EST.

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