DDR5 Analyzer Interposer

x4/x8 BGA Component | Direct Attach | Analyzer

OVERVIEW

The DDR5-D-CDA-78 Direct Attach BGA interposer enables probing of DDR5 x4/x8 components with an MA5100 series analyzer.

- 78-/82-ball DDR5 x4/x8 BGA Component
- JEDEC Standard JESD79-5
- Easily access signals
- Small keep-out volume (KOV)
- Riser Not Needed
- S-Parameters for System Simulation
- Installs with standard BGA Rework
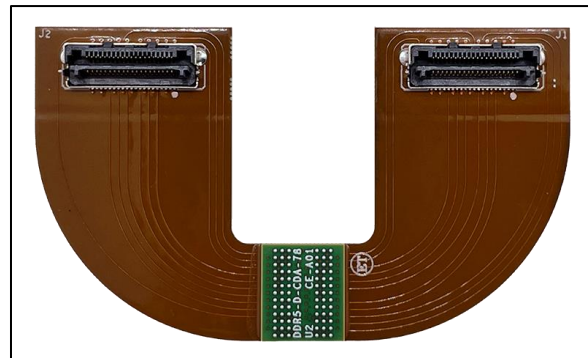- Attachment and Analysis Services Available

Figure 1 DDR5-D-CDA-78

BGA INTERPOSER ADVANTAGES

The DDR5-D-CDA-78 interposer enables high speed probing at with an MA5100 series analyzer. The interposer is easy to install using standard BGA rework practices. Or take advantage of Nexus' attachment and testing services.

DIRECT ATTACH – CONVENIENT AND ACCURATE

Optimal DDR5 validation requires analysis of the DDR5 signals as seen by the memory components. This allows for the highest confidence that the signals captured are representative, contain little interference, and present the maximum possible data eye size.

ATTACHMENT AND TESTING SERVICES

The following services are available for this interposer.

ATTACHMENT SERVICE

For each interposer, the *Attachment Service* will install a component to the interposer and the interposer to the target. Other accessories may also be attached (risers, sockets, etc.).

TARGET BOOT & BASIC FUNCTIONALITY

For each target, this service will power on and ensure functionality of the target with the interposer(s) installed.
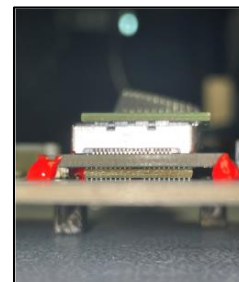

Figure 2 Attachment Service Example

MA5150: Signal Analysis & Basic Command Acquisition

This service will power on the target and place the target in a predefined state. A MA5150 analyzer will then be connected to the target and the following tests will be performed and the following reports will be provided.

- iCiS eye analysis report of all command, address and control signals, including recommended sampling positions and a MAx100 System Setup file.

Figure 3 iCiS Analysis Example

Figure 4 Basic Acq. & Violations Example

Signals Probed

- ALERT#
- CA0
- CA0
- CA0
- CA0
- CA0
- CA0
- CA0
- CA0
- CA0
- CA0

- CA0
- CA0
- CA0
- CA0
- CAI
- CLK+
- CLK-
- CS#
- MIR
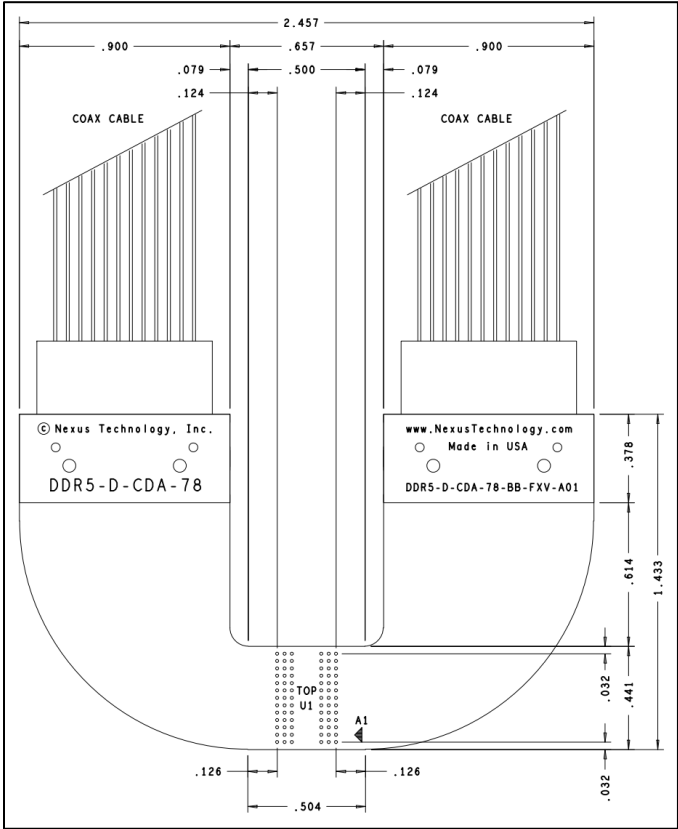- RESET#

DIMENSION DRAWINGS

Figure 5 Interposer Mechanicals - Front
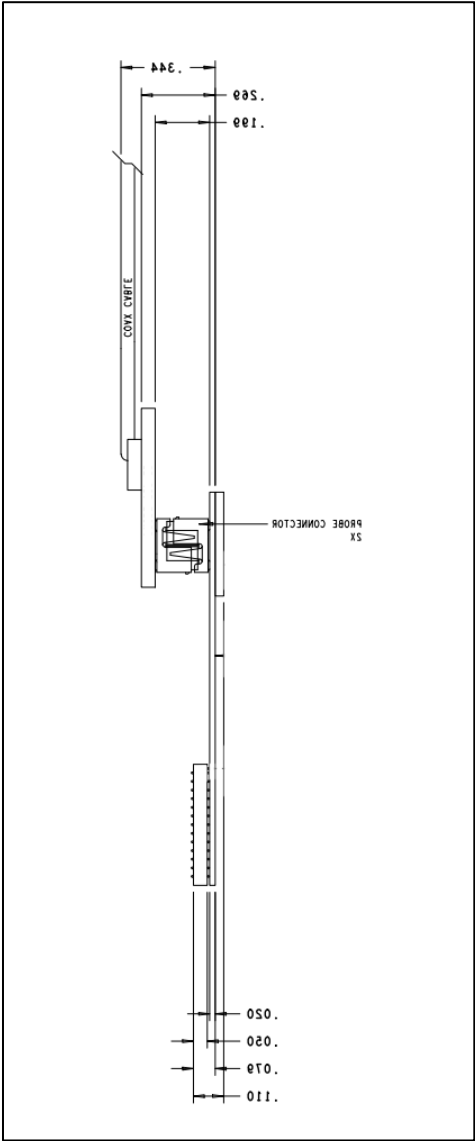
Figure 6 Interposer Mechanicals – Side

PRODUCT CONFIGURATION TABLE

Product Name	Description	Nexus Order Number
DDR5-D-CDA-78	DDR5 78-ball component interposer for use with MA5100 series analyzers and PRB-HD series probe.	NEX-DDR5-D-CDA-78-V

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