

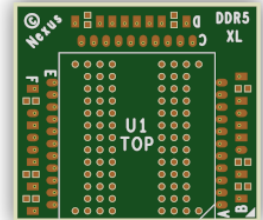
DDR5-A-CDA-82-XL

DDR5 Xcelerate™ Series x4/x8 BGA Interposer | Oscilloscope

OVERVIEW

The DDR5-A-CDA-82-XL Direct Attach BGA interposer enables probing of DDR5 x4/x8 components with an oscilloscope.

- DDR5 12 GT/s
- Easy probing with an oscilloscope
- MO-210 Packages
 - o 78-ball MO-210-AL
 - o 82-ball MO-210-AN
- JEDEC Standard JESD79-5
- Xcelerate™ series
- Small keep-out volume (KOV)
- Integrated riser
- S-Parameters for system simulation
- Oscilloscope de-embedding s-parameters
- Installs with standard BGA rework
- Attachment and analysis services available
- Made in the USA



XCELERATE® SERIES INTERPOSER

This interposer is a member of the Xcelerate™ Series of interposers. Engineered for performance and precision, Nexus Technology's Xcelerate™ Series interposers support data rates exceeding 10 Gbps (12 Gbps for this DDR5-A-CDA-82-XL interposer), enabling seamless signal access for oscilloscopes, logic analyzers, and other advanced test equipment. The Xcelerate™ series of interposers empowers engineers to validate, debug, and optimize next-generation memory systems with unparalleled accuracy and efficiency.

Xcelerate™

KEY FEATURES

DDR5-12000: Supports data rates up to 12 GT/s.

Robust Signal Access: Provides low-loss, high-fidelity probing points for critical signals, including data (DQ), command/address (CA), and clock lines, ensuring minimal impact on system performance during testing.

Xcelerate™ Series Member: Xcelerate® Series interposers are available in multiple configurations to accommodate various package types (e.g., BGA, PoP) and test setups, offering compatibility with industry-standard oscilloscopes and logic analyzers.

Enhanced Durability: Built with high-quality materials to withstand repeated mating cycles and maintain signal reliability in demanding lab environments.

Streamlined Integration: Designed for easy installation between memory modules and host systems, reducing setup time and complexity for test engineers.

JEDEC Speed Bins: DDR5-8800 / DDR5-8400 / DDR5-8000 / DDR5-7600 DDR5-7200 / DDR5-6800 / DDR5-6400 / emerging higher data rates.

TECHNICAL SPECIFICATIONS

For a complete datasheet, including all technical specifications, please contact us.

BGA INTERPOSER ADVANTAGES

The DDR5-A-CDA-82-XL interposer with an integrated riser enables probing at the highest speeds of DDR5 with an oscilloscope. This enables complete signal access to the DDR5 bus for visibility and compliance analysis. 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. This DDR5 Direct Attach interposer enables oscilloscope probing of the DDR5 signals.

SIMULATION AND DE-EMBEDDING

S-Parameters are included for target simulation and the creation of oscilloscope de-embedding filters.

SOLDER BALLS

The interposer comes with solder balls installed.

RISER

The riser is integrated into the interposer.

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.).



Figure 1 Attachment Service Example

TARGET BOOT & BASIC FUNCTIONALITY

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

DIMENSION DRAWINGS

For a complete datasheet, including mechanical dimensions, please contact us.

PROBE POINT LOCATIONS / SIGNAL

For a complete datasheet, including mechanical dimensions, please contact us.

PRODUCT CONFIGURATION TABLE

Product Name	Description	Nexus Order Number
DDR5-A-CDA-82-XL	DDR5 82-ball Xcelerate™ Series component interposer with integrated riser. Supports 82- and 78-ball (MO-210-AL and MO-210-AN).	NEX-DDR5-A-CDA-82-XL



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