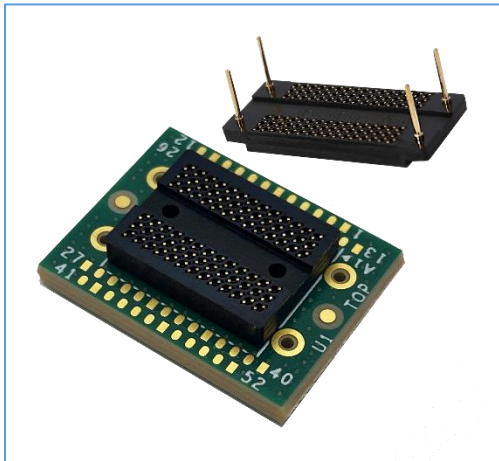


DDR5 Interposers

DDR5 x4/x8 XH Series Socketed Interposer



Key Features

- DDR5
- XH Series Universal Probe Interposer
- x4/x8
- High fidelity
- Enables oscilloscope probing

* For DDR5 x4/x8 82 Ball Support, Please [Contact Nexus](#)

Applications

- DDR5
 - Memory validation and debug
 - Monitoring bus traffic
 - Bus traffic measurement
 - Analog insight

Socketed Interposer Concept

Target Socketed interposers consists of a target socket, an interposer, and *optionally* a component socket. The target socket has a standard ball-grid-array (BGA) interface which is used to install the socket onto the target. The target socket has a removable socket interface to which the interposer can be mechanically attached and re-attached by using a simple tool and your finger to press-fit the parts together. The target socket's design forces the interposer up and over adjacent components, allowing this solution to fit in a wide variety of mechanically tight applications.

If an optional component socket is provided, this socket will reside on the interposer and provide a mechanically constrained and reusable interface for attaching standard BGA components. If the optional component socket is not provided, the standard BGA component is attached to the interposer using standard BGA component attachment techniques. Lastly, when testing is completed, the interposer can be removed and the BGA component may be press fit directly into the custom socket on the target essentially removing the affect of the interposer in the target.

Simulation and De-Embedding

Oscilloscope de-embedding software filters/removes interposer effects. Please contact Nexus for the appropriate de-embedding software for your interposer.

Attachment Service

Nexus Technology's expert attachment service provides a ready-to-go test solution customized to your application. We will attach the interposer and any additional accessories to your application's target. We can also power-on and test your application to confirm functionality. Please contact us for more information.



Mechanical Outline

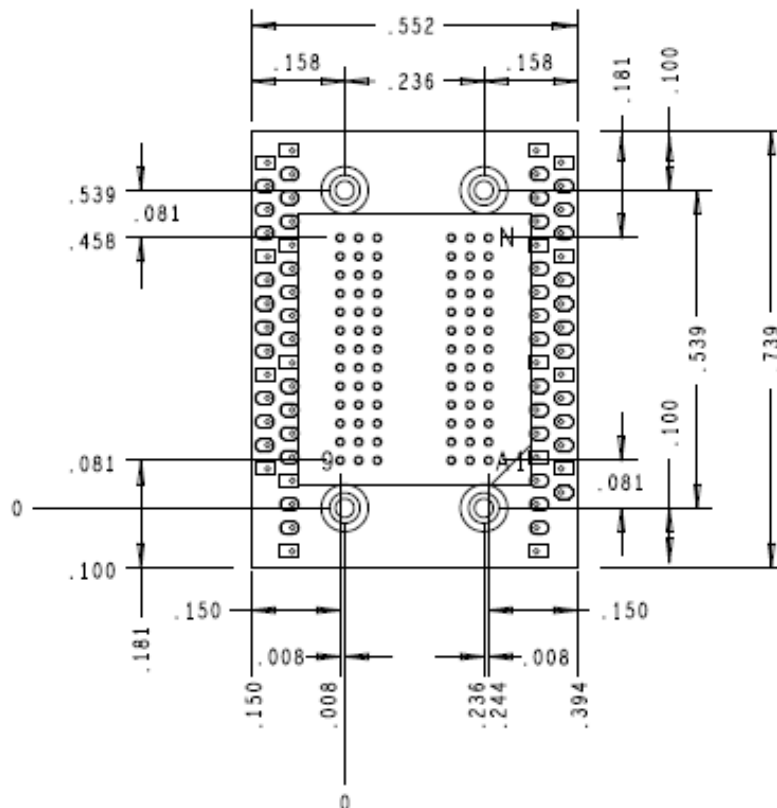
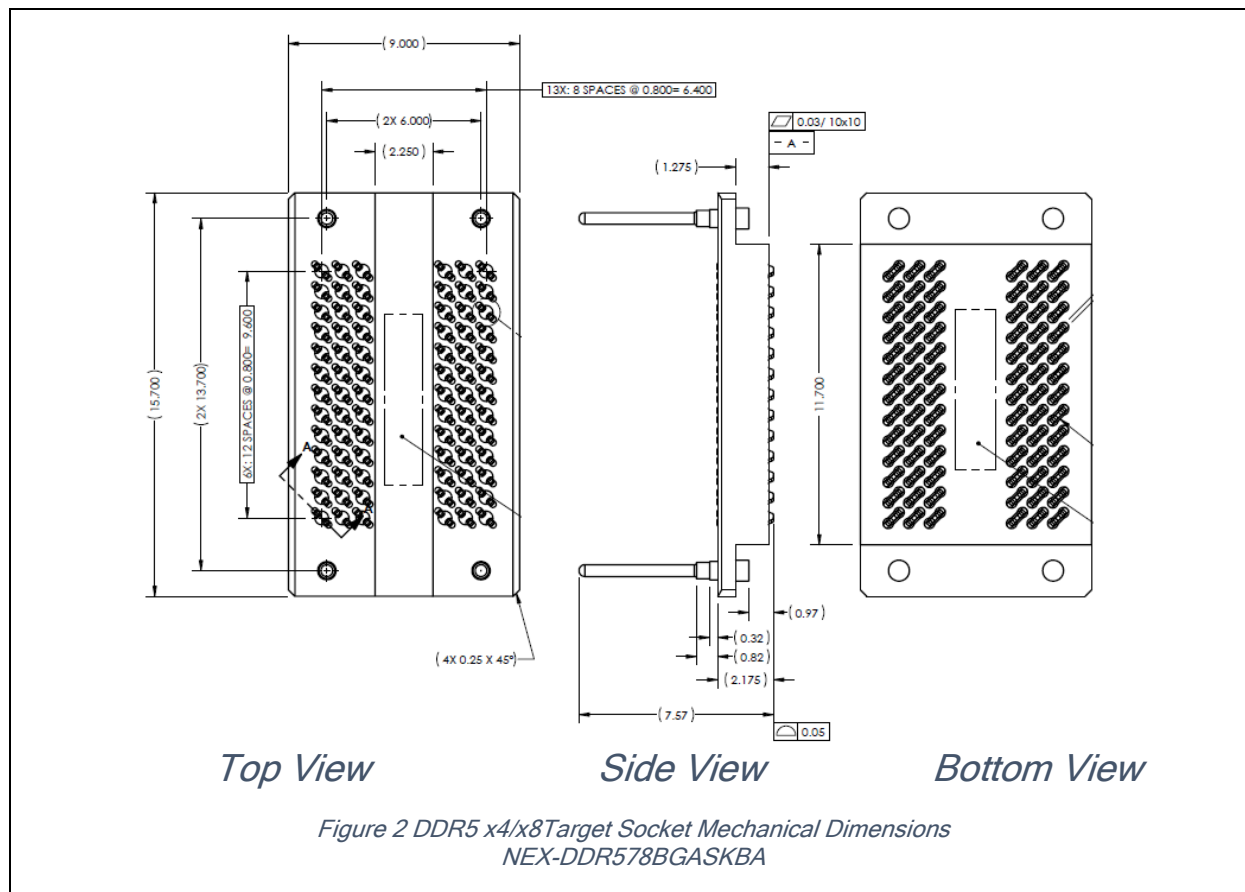


Figure 1 DDR5 x4/x8 XH Series Socketed Interposer Mechanical Dimensions
NEX-DDR5MP78XHBS(SK)



Probe Point Signal List

| TEST Point | Signal | TEST Point | Signal | TEST Point | Signal | TEST Point | Signal |
|------------|---------|------------|--------|------------|-------------|------------|---------|
| 1 | GND | 14 | DQ2 | 27 | GND | 40 | GND |
| 2 | LBDQ | 15 | DQS_t | 28 | CA11 | 41 | CA13 |
| 3 | DQ0 | 16 | DQS_c | 29 | CA9 | 42 | GND |
| 4 | DQ4 | 17 | GND | 30 | CA3 | 43 | RESET_n |
| 5 | MIR | 18 | DQ6 | 31 | CA1 | 44 | CA7 |
| 6 | GND | 19 | CA_ODT | 32 | GND | 45 | CA5 |
| 7 | ALERT_n | 20 | CS_n | 33 | CK_C | 46 | TEN |
| 8 | CA4 | 21 | CA0 | 34 | CK_t | 47 | GND |
| 9 | CA6 | 22 | GND | 35 | DQ7 | 48 | DQ5 |
| 10 | CAI | 23 | CA2 | 36 | GND | 49 | DQ1 |
| 11 | GND | 24 | CA8 | 37 | TDQS_c | 50 | ZQ |
| 12 | CA12 | 25 | CA10 | 38 | DM_n/TDQS_t | 51 | LBDQS |
| 13 | GND | 26 | GND | 39 | DQ3 | 52 | GND |

Probe Point Locations

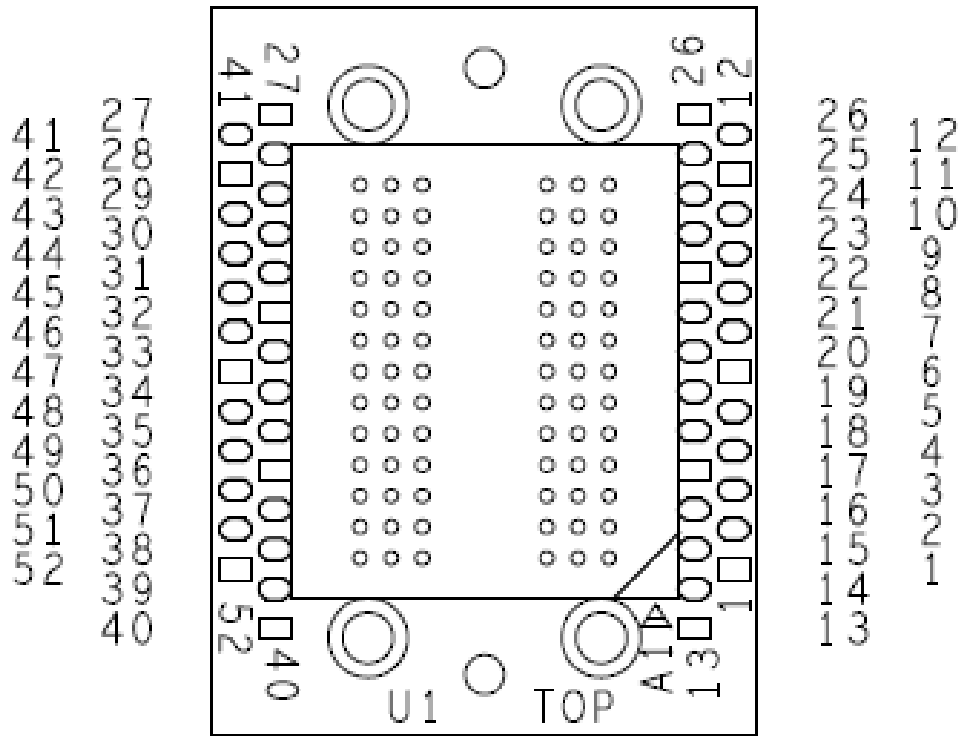


Figure 3 DDR5 x4/x8XH Series Socketed Interposer Probe Point Locations

Product Configuration Table

| Nomenclature | Memory Socket |
|---------------------|---------------|
| NEX-DDR5MP78XHBSC | No |
| NEX-DDR5MP78XHBSCSK | Yes |

Available Accessories

| Type | Desc. | Nomenclature |
|-------------------|---|----------------------------|
| Riser | DDR5 x4/x8 Riser elevates interposer 0.050" | NEX-RSRDDR578 ¹ |
| Memory Socket | Memory socket | NEX-SOCKETDDR578 |
| Interposer Socket | Patented interposer socket | NEX-DDR578BGASKBA |

¹ P/N NEX-RSRDDR578 includes solderballs.

Contact Information

For more information, please contact us by telephone, email or mail as listed below. Normal business hours are 9:00 - 5:00 EDT/EST.

| | |
|---------------|--|
| Web | www.nexustechnology.com |
| Telephone | 877.595.8116 |
| International | 603.329.3083 |
| Fax | 877.595.8118 |
| Address | 78 Northeastern Blvd. Unit 2 Nashua, NH 03062 |
| Email | support@nexustechnology.com |