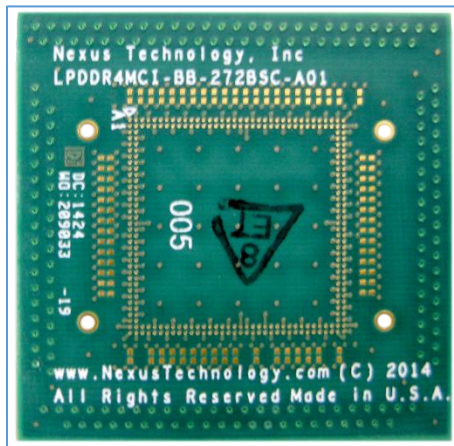


# LPDDR4 Interposers

## LPDDR4 272 Ball Direct Attach Interposer



### Key Features

- LPDDR4
- 272 ball
- High fidelity
- Low and high speed operation
- Enables oscilloscope probing
- 4 Channel x16 Memory Component

### Applications

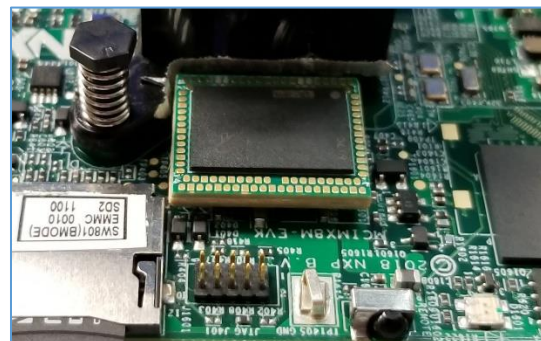
- LPDDR4
  - Memory validation and debug
  - Monitoring bus traffic
  - Bus traffic measurement
  - Analog insight

### 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.



*Figure 1 Direct Attach interposer installed under a memory component*

## Mechanical Outline

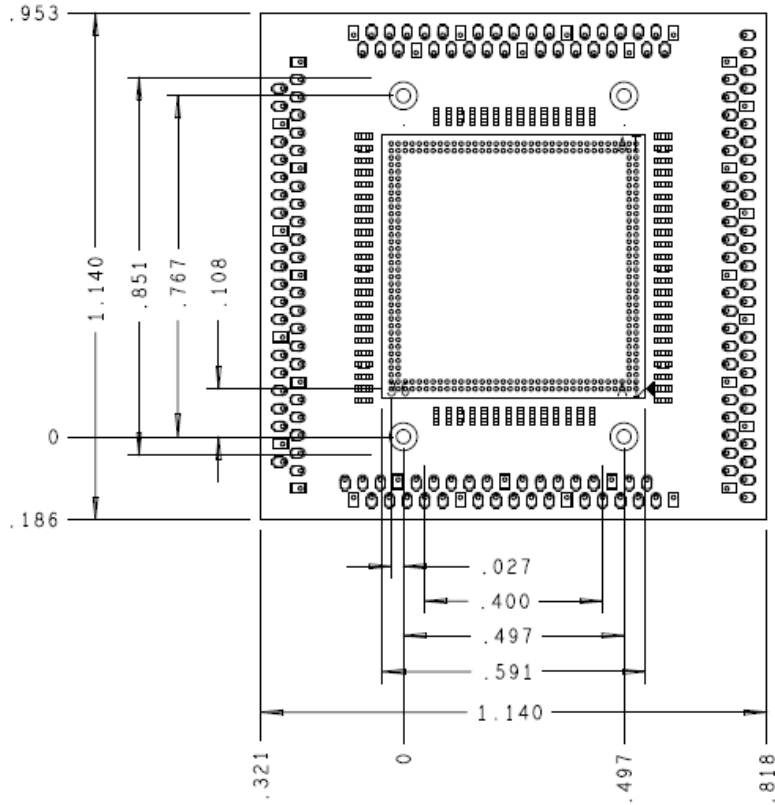


Figure 2 LPDDR4 272 Ball Direct Attach Interposer Mechanical Dimensions

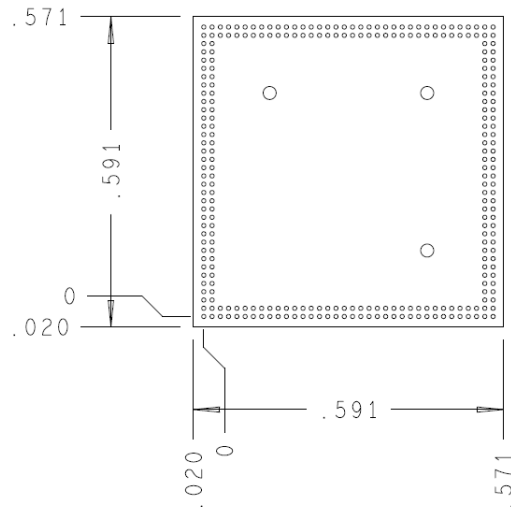


Figure 3 LPDDR4 272 Ball Riser Mechanical Dimensions

## Probe Point Signal List

TEST Point	Signal	TEST Point	Signal	TEST Point	Signal	TEST Point	Signal
1	GND	45	DQ7_b	89	GND	133	CA4_c
2	CK_c_a	46	CA0_b	90	GND	134	CA3_c
3	CK_t_a	47	ODTca_b	91	CKE0_d	135	GND
4	CA0_a	48	GND	92	CK_t_d	136	CKE1_c
5	CA1_a	49	CS1_b	93	CK_c_d	137	CS1_c
6	CA1_a	50	CKE0_b	94	CA2_d	138	CS0_c
7	GND	51	CA3_b	95	DQ15_d	139	CA1_c
8	DQ7_a	52	CA2_b	96	GND	140	GND
9	DQ4_a	53	RESET_n	97	DMI1_d	141	DQ7_c
10	DQS0_c_a	54	CA5_b	98	DQS1_c_d	142	DQ6_c
11	DQS0_t_a	55	GND	99	DQS1_t_d	143	DQS0_t_c
12	DQ2_a	56	DQ14_b	100	DQ10_d	144	DQS0_c_c
13	GND	57	DMI1_b	101	DQ9_d	145	DQ3_c
14	DQ0_a	58	DQS1_t_b	102	GND	146	GND
15	DQ2_b	59	DQS1_c_b	103	DQ8_c	147	DQ1_c
16	DQS0_t_b	60	DQ9_b	104	DQS1_t_c	148	DQ9_a
17	DQS0_c_b	61	GND	105	DQS1_c_c	149	DQ11_a
18	DQ4_b	62	DQ1_d	106	DMI1_c	150	DSQ1_c_a
19	GND	63	DQS0_c_d	107	DQ12_c	151	DQS1_t_a
20	CA1_b	64	DQS0_t_d	108	GND	152	GND
21	CS0_b	65	DQ6_d	109	CA5_c	153	DQ14_a
22	CKE1_b	66	DQ7_d	110	CA2_c	154	CA5_a
23	CK_t_b	67	GND	111	CK_c_c	155	GND
24	CK_c_b	68	CA1_d	112	CK_t_c	156	CA0_c
25	GND	69	CS0_d	113	CKE0_c	157	ODTca_c
26	CA2_a	70	CS1_d	114	GND	158	DQ5_c
27	CKE0_a	71	GND	115	CKE1_d	159	DMI0_c
28	CKE1_a	72	CA4_b	116	CA3_d	160	DQ4_c
29	ODTca_a	73	DQ15_b	117	GND	161	GND
30	GND	74	DQ13_b	118	CA4_d	162	DQ2_c
31	CA0_a	75	DQ12_b	119	CA5_d	163	DQ0_c
32	DQ6_a	76	DQ10_b	120	DQ12_d	164	DQ8_a
33	DQ5_a	77	GND	121	DQ14_d	165	DQ10_a
34	DMI0_a	78	DQ11_b	122	DQ13_d	166	DMI1_a
35	DQ3_a	79	DQ8_b	123	GND	167	GND
36	GND	80	DQ0_d	124	DQ11_d	168	DQ13_a
37	DQ1_a	81	DQ3_d	125	DQ8_d	169	DQ12_a
38	DQ0_b	82	DQ2_d	126	DQ9_c	170	DQ15_a
39	DQ1_b	83	GND	127	DQ10_c	171	CA4_a
40	DQ3_b	84	DMI0_d	128	DQ11_c	172	CA3_a
41	DMI0_b	85	DQ4_d	129	GND	173	GND
42	GND	86	DQ5_d	130	DQ13_c		
43	DQ5_b	87	ODTca_d	131	DQ14_c		
44	DQ6_b	88	CA0_d	132	DQ15_c		



## Product Configuration Table

Nomenclature	Solder Balls on Interposer	Memory Socket on Interposer
NEX-LP4POP272BSC	Yes	No
NEX-LP4POP272BSCSK	Yes	Yes

## Available Accessories

Type	Desc.	Quantity	Nomenclature
Riser	Riser with Solder balls added elevates the interposer .050"	1	NEX-RSRLPDDR4272
Socket	Memory socket	1	NEX-SOCKETLPDDR4272
Solder Balls	Install solder balls on socket	1	NEX-OPT-SOLDERBALLS-SK

## Attachment Service Options

Attachment Service Level	Description
Attachment Service	Contact us for more information

## 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	<a href="http://www.nexustechnology.com">www.nexustechnology.com</a>
Telephone	877.595.8116
International	603.329.3083
Fax	877.595.8118
Address	78 Northeastern Blvd. Unit 2 Nashua, NH 03062
Email	<a href="mailto:support@nexustechnology.com">support@nexustechnology.com</a>