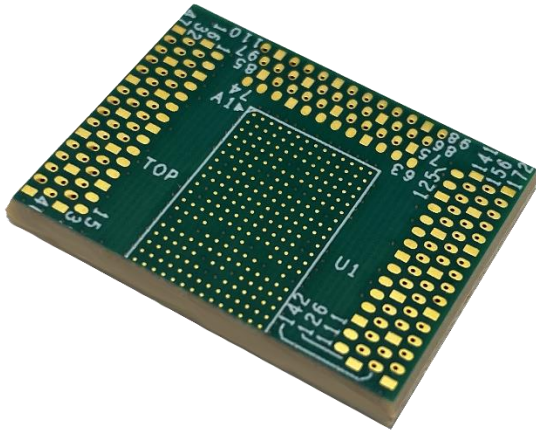


# DDR5 RCD Interposer

DDR5 RCD 240 Ball XH Series Direct Attach Interposer



## Key Features

- DDR5 Registering Clock Drivers (RCD)
- XH Series Universal Probe Interposer
- 240 Ball Component Interposer
- High Fidelity
- Enables Oscilloscope Probing

## Applications

- DDR5 RDIMMs and LRDIMMs
  - Memory validation and debug
  - Monitoring RCD signals
  - Analog insight

## Simulation and De-embedding

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

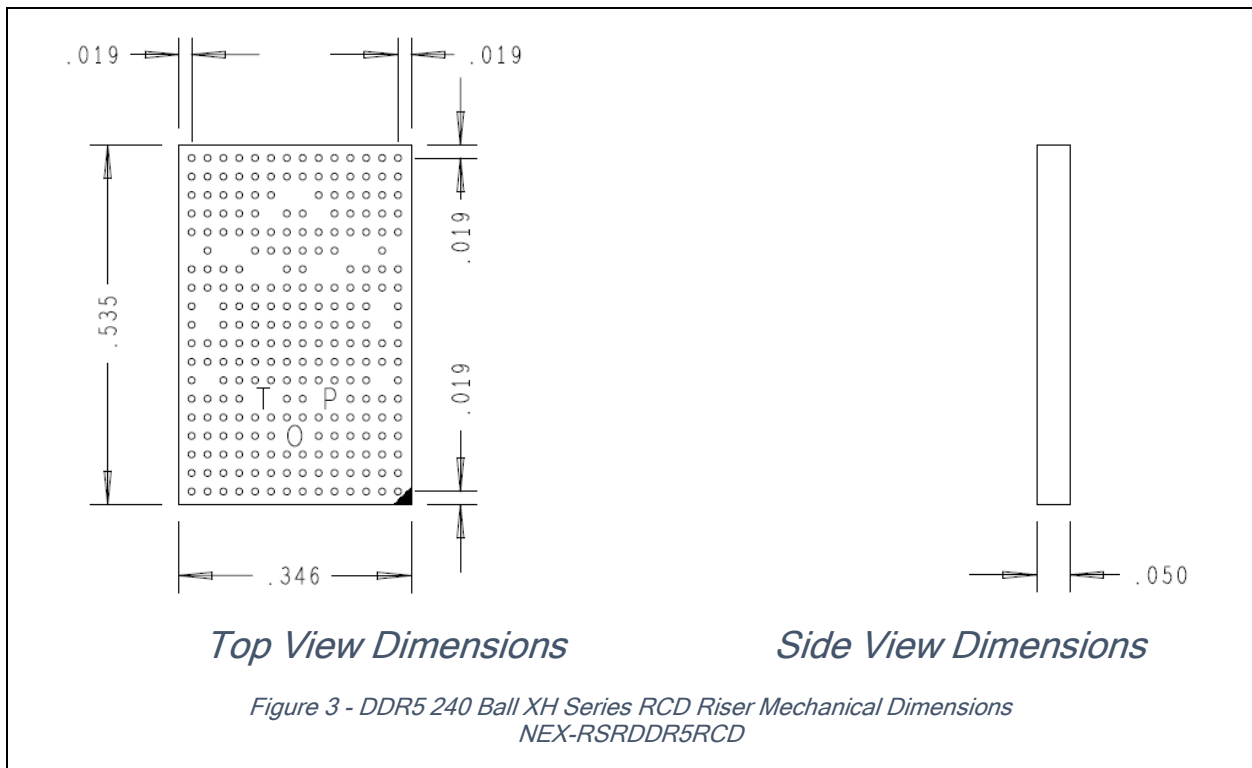
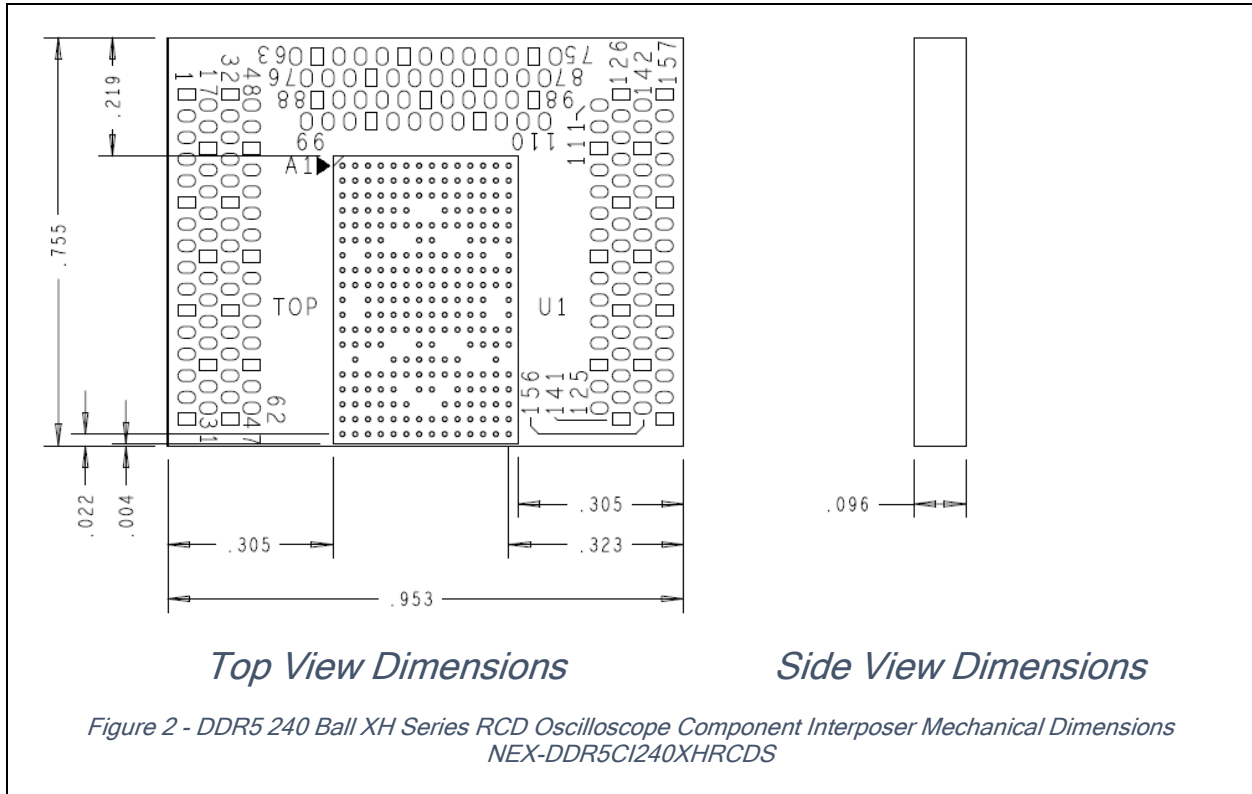
## Attachment Service

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



## Probe Point Signal List

TEST Point	Signal	TEST Point	Signal	TEST Point	Signal	TEST Point	Signal
1	QD_CK_A_c	44	GROUND	87	QB_CA4_B	130	QRST_B_n
2	QD_CK_A_t	45	DCS0_A_n	88	QB_CA2_B	131	GROUND
3	GROUND	46	DCA3_A	89	GROUND	132	BRST_B_n
4	QECK_A_t/RFU	47	GROUND	90	QB_CA3_B	133	QC_CK_B_c
5	QA_CA8_A	48	QA_CA10_A	91	QB_CA7_B	134	QC_CK_B_t
6	QA_CK_A_t	49	QA_CA6_A	92	QB_CA7_A	135	QA_CA2_B
7	QA_CK_A_c	50	QA_CA1_A	93	QB_CA3_A	136	GROUND
8	GROUND	51	QA_CA5_A	94	GROUND	137	QECK_B_c/RFU
9	QLBD	52	GROUND	95	QB_CA2_A	138	QB_CS0_B_n
10	BCK_A_c	53	QA_CS0_A_n	96	QB_CA4_A	139	QB_CA0_B
11	BCK_A_t	54	BCOM1_A	97	QA_CA11_A	140	SDA
12	ALERT_n	55	BCS_A_n	98	QA_CA9_B	141	GROUND
13	GROUND	56	BCOM0_A	99	GROUND	142	DCS1_B_n
14	DCA6_A	57	GROUND	100	QB_CA5_B	143	DLBD_B
15	DCA5_A	58	DCA0_A	101	QB_CA6_B	144	GROUND
16	GROUND	59	DCA1_A	102	QB_CA1_B	145	DCS0_B_n
17	SCL	60	DCA2_A	103	DCK_t	146	BCOM2_B
18	QB_CA0_A	61	DCA4_A	104	DCK_c	147	QA_CS1_B_n
19	QB_CS0_A_n	62	GROUND	105	GROUND	148	QA_CA0_B
20	QECK_A_c/RFU	63	QB_CK_B_c	106	QB_CA1_A	149	GROUND
21	GROUND	64	QB_CK_B_t	107	QB_CA6_A	150	QA_CA4_B
22	QA_CA2_A	65	DERROR_IN_B_n	108	QB_CA5_A	151	QA_CA7_B
23	QC_CK_A_t	66	GROUND	109	GROUND	152	QA_CA3_B
24	QC_CK_A_c	67	QB_CA10_B	110	QA_CA9_A	153	QA_CA12_B
25	BRST_A_n	68	QB_CA13_B	111	DCA0_B	154	GROUND
26	GROUND	69	QB_CA13_A	112	DCA1_B	155	QA_CA13_B
27	QRST_A_n	70	QB_CA10_A	113	GROUND	156	QB_CS1_B_n
28	DLBS_A	71	GROUND	114	DRST_n	157	GROUND
29	DLBD_A	72	DERROR_IN_A_n	115	BCK_B_t	158	DCA4_B
30	DPAR_A	73	QB_CK_A_t	116	BCK_B_c	159	DCA5_B
31	GROUND	74	QB_CK_A_c	117	QLBS	160	DCA6_B
32	QB_CS1_A_n	75	GROUND	118	GROUND	161	DPAR_B
33	QA_CA13_A	76	QB_CA8_B	119	QA_CK_B_c	162	GROUND
34	GROUND	77	QB_CA12_B	120	QA_CK_B_t	163	BCOM0_B
35	QA_CA12_A	78	QB_CA11_B	121	QA_CA8_B	164	BCS_B_n
36	QA_CA3_A	79	QB_CA9_B	122	QECK_B_t/RFU	165	BCOM1_B
37	QA_CA7_A	80	GROUND	123	GROUND	166	QA_CS0_B_n
38	QA_CA4_A	81	QB_CA9_A	124	QD_CK_B_t	167	GROUND
39	GROUND	82	QB_CA11_A	125	QD_CK_B_c	168	QA_CA5_B
40	QA_CA0_A	83	QB_CA12_A	126	GROUND	169	QA_CA1_B
41	QA_CS1_A_n	84	QB_CA8_A	127	DCA2_B	170	QA_CA6_B
42	BCOM2_A	85	GROUND	128	DCA3_B	171	QA_CA10_B
43	DCS1_A_n	86	QA_CA11_B	129	DLBS_B	172	GROUND

### Probe Point Locations

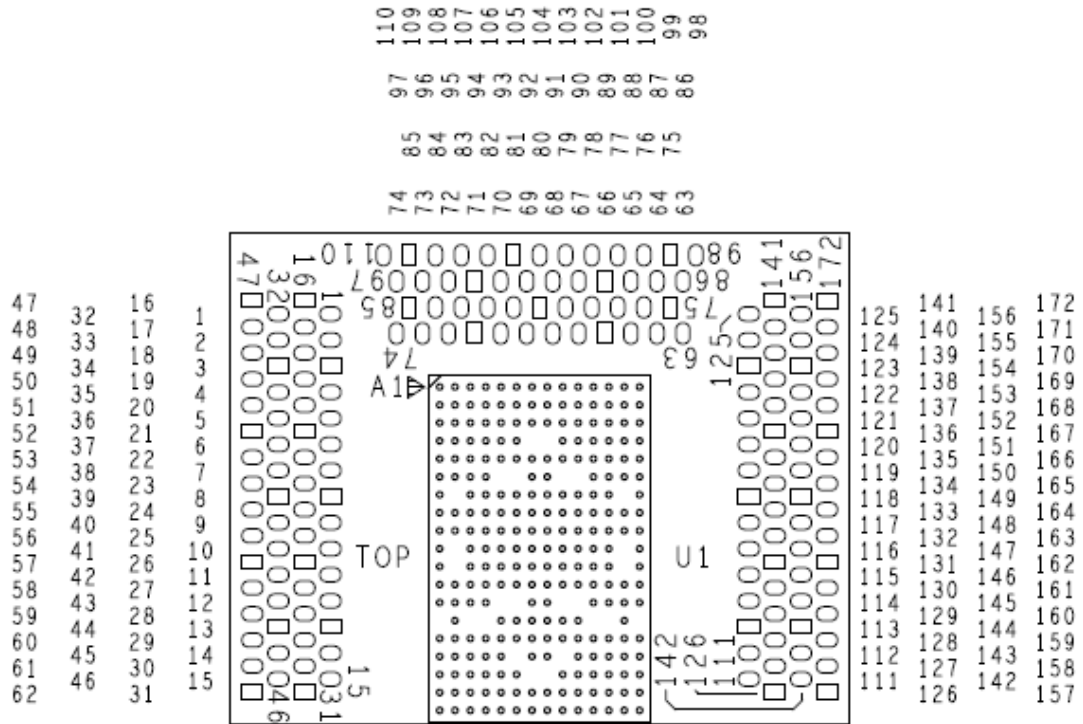


Figure 4 - DDR5 240 Ball XH Series RCD Oscilloscope Component Interposer Probe Point Locations

### Product Configuration Table

Nomenclature	Solder Balls on Interposer	Riser Included	Riser Includes Solder Balls
NEX-DDR5CI240XHRCD	Yes	Yes <sup>1</sup>	Yes

<sup>1</sup> Riser elevates interposer 0.050". Riser also includes solderballs.

### Available Accessories

Type	Desc.	Nomenclature
Riser	DDR5 RCD Riser elevates interposer .050"	NEX-RSRDDR5RCD <sup>2</sup>

<sup>2</sup> P/N NEX-RSRDDR5RCD includes solderballs.

### Attachment Service Options

Attachment Service Level	
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.

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Telephone	877.595.8116
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Email	support@nexustechnology.com