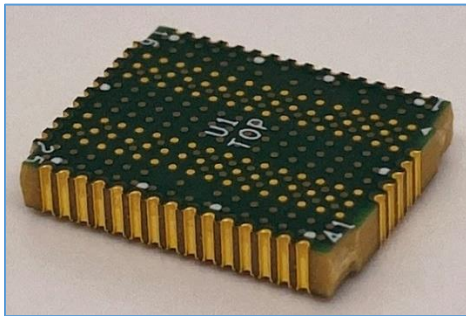


# DDR4 Interposers

DDR4 96 Ball XH Series EdgeProbe™ Interposer



## Key Features

- DDR4
- XH Series Universal Probe Interposer
- 96-ball
- x16
- EdgeProbe™ interposer
- High fidelity
- Data rates exceeding 3,200MT/s
- Enables oscilloscope probing
- Patented interposer/probe design

## Applications

- DDR4
  - Memory validation and debug
  - Monitoring bus traffic
  - Bus traffic measurement
  - Analog insight
- DDR4 rates above **DDR4-3200**

## EdgeProbe™ Interposer Technology



Nexus Technology's patent pending EdgeProbe™ technology enables our interposers to be virtually the same size as the memory

component. This is important because standard direct-attach interposers are significantly larger than the memory component which can potentially cause mechanical clearance problems. In other words, standard direct-attach interposers do not fit in all applications. EdgeProbe™ interposers fit in all applications.

EdgeProbe™ interposers provide advanced analysis capabilities by integrating the oscilloscope probe in to the interposer itself. In doing so, the probe point moves extremely close to the component pad which is the optimal and least intrusive location.

## Software

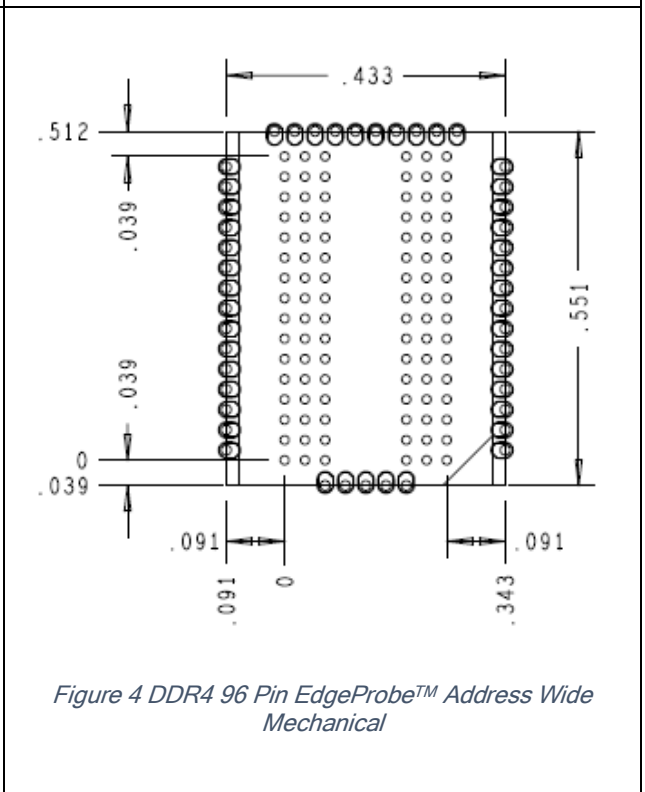
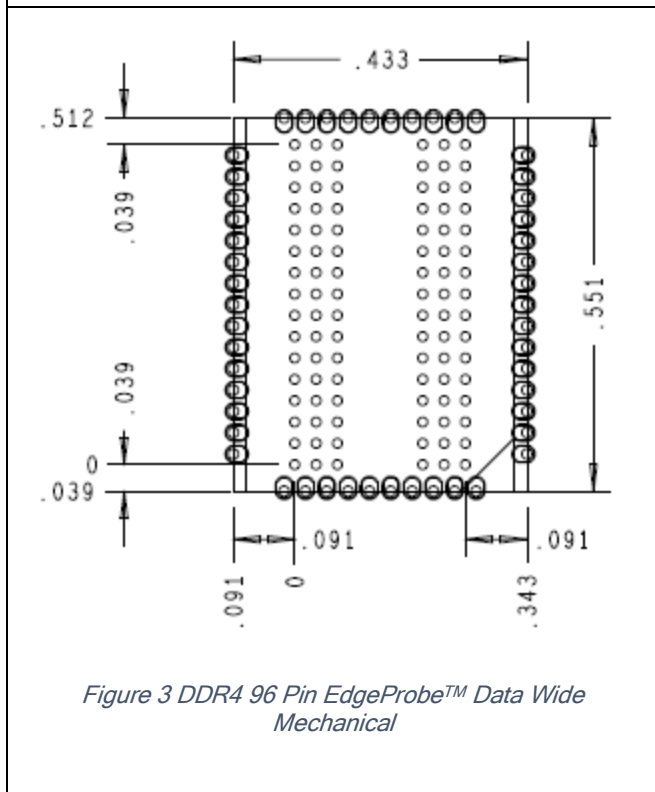
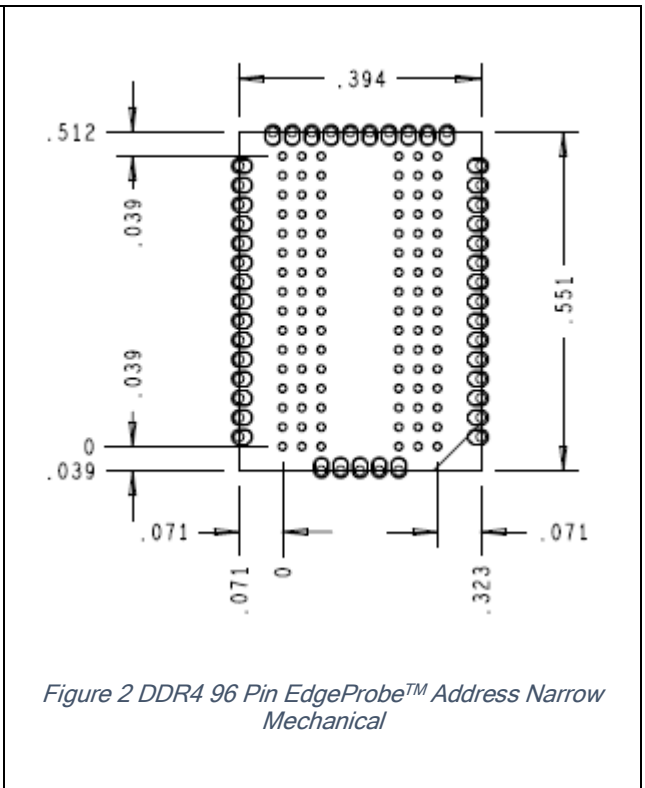
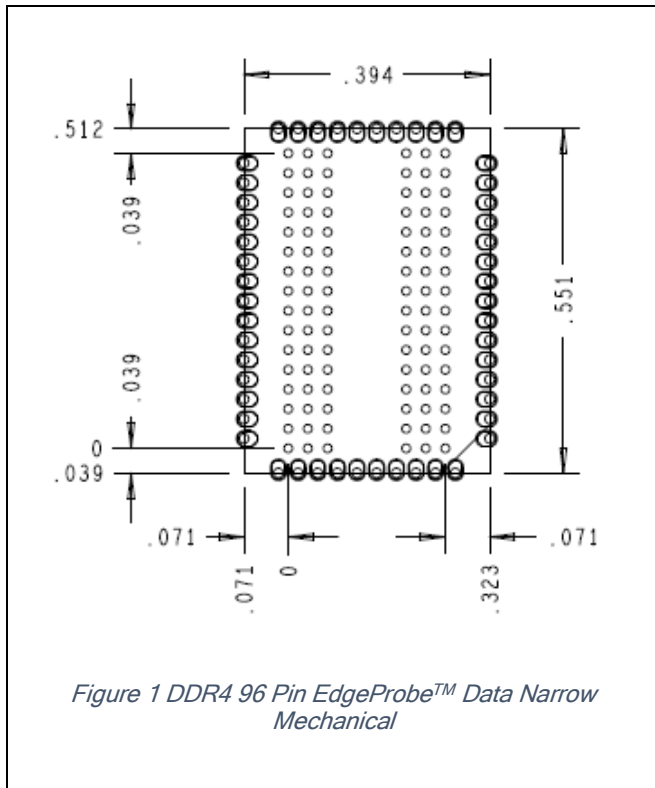
Oscilloscope de-embedding software filters/removes interposer effects. Please contact Nexus for the appropriate de-embedding software for your interposer.

## 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.



## Mechanicals



**Probe Point Signal List**

NEX-DDR4MCI96XHEPSD and NEX-DDR4MCI96XHEPWD

TEST Point	Signal	TEST Point	Signal	TEST Point	Signal
1	GND	18	GND	35	GND
2	UDM/_DBI/	19	BA0	36	DQ5
3	DQ0	20	BG0	37	DQ1
4	LDQS/	21	A15_CAS/	38	LDM/_LDBI/
5	LDQS	22	SEN	39	DQ15
6	GND	23	GND	40	GND
7	DQ2	24	ALERT/	41	DQ9
8	DQ4	25	BA1	42	DQ11
9	DQ6	26	GND	43	DQ13
10	GND	27	BG1	44	DQ8
11	ODT	28	A16_RAS/	45	GND
12	CKE	29	CS/	46	UDQS/
13	ACT/	30	DQ7	47	UDQS
14	A14_WE/	31	GND	48	DQ10
15	GND	32	CK	49	DQ12
16	RESET/	33	CK/	50	DQ14
17	PARITY	34	DQ3		

NEX-DDR4MCI96XHEPSA and NEX-DDR4MCI96XHEPWA

TEST Point	Signal	TEST Point	Signal	TEST Point	Signal
1	GND	16	A2	31	GND
2	DQ0	17	A11	32	A16_RAS/
3	LDQS/	18	A8	33	CK
4	LDQS	19	A1	34	CK/
5	CKE	20	GND	35	GND
6	GND	21	A0	36	A12
7	ACT/	22	A13	37	BG1
8	A14_WE/	23	A7	38	SEN
9	A10	24	A5	39	LDM/
10	GND	25	A9	40	GND
11	BG0	26	GND	41	ALERT/
12	A4	27	A3	42	PARITY
13	BA0	28	BA1	43	GND
14	A6	29	A15_CAS/	44	ODT
15	GND	30	CS/	45	RESET/

### Probe Point Locations

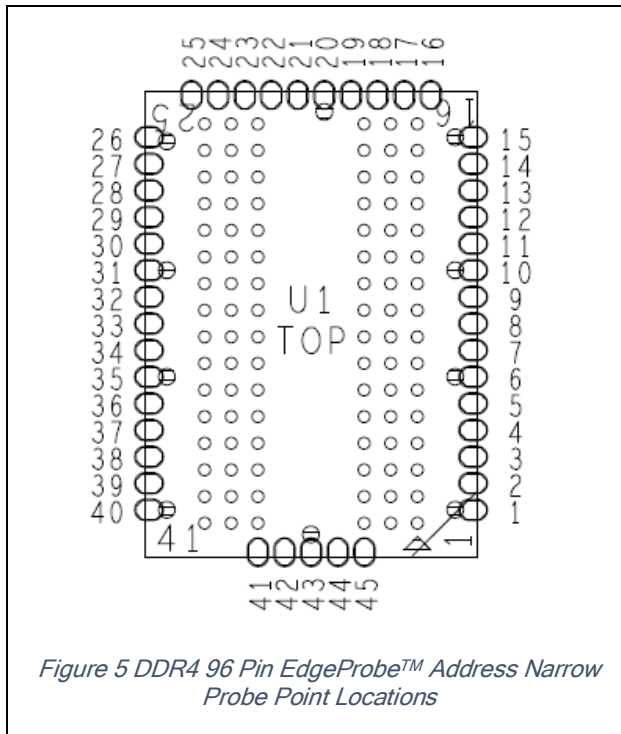


Figure 5 DDR4 96 Pin EdgeProbe™ Address Narrow Probe Point Locations

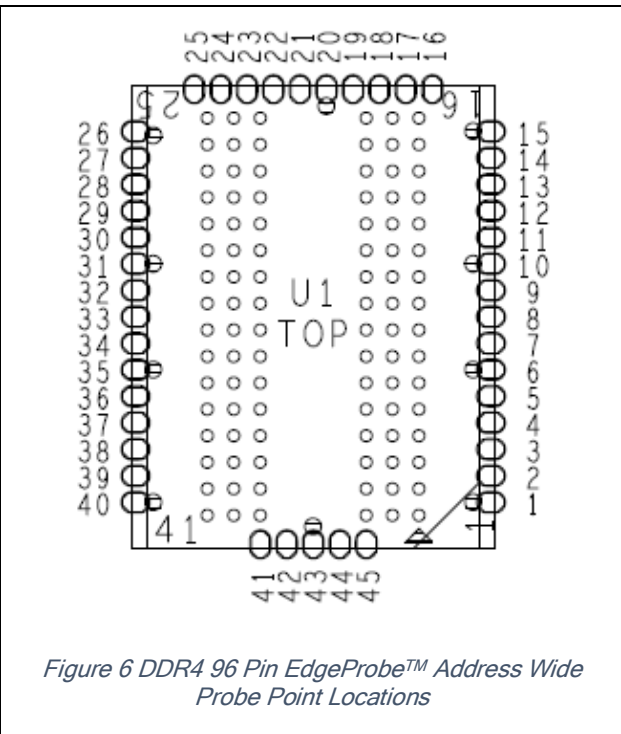


Figure 6 DDR4 96 Pin EdgeProbe™ Address Wide Probe Point Locations

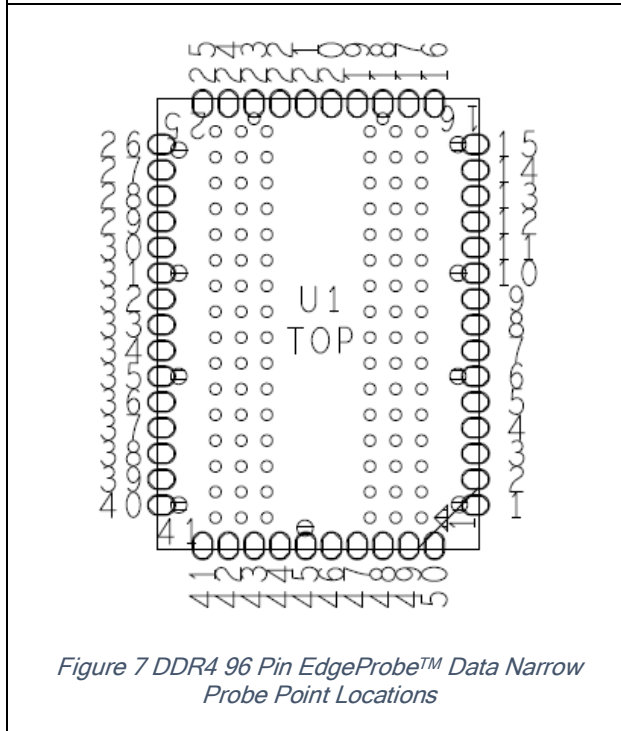


Figure 7 DDR4 96 Pin EdgeProbe™ Data Narrow Probe Point Locations

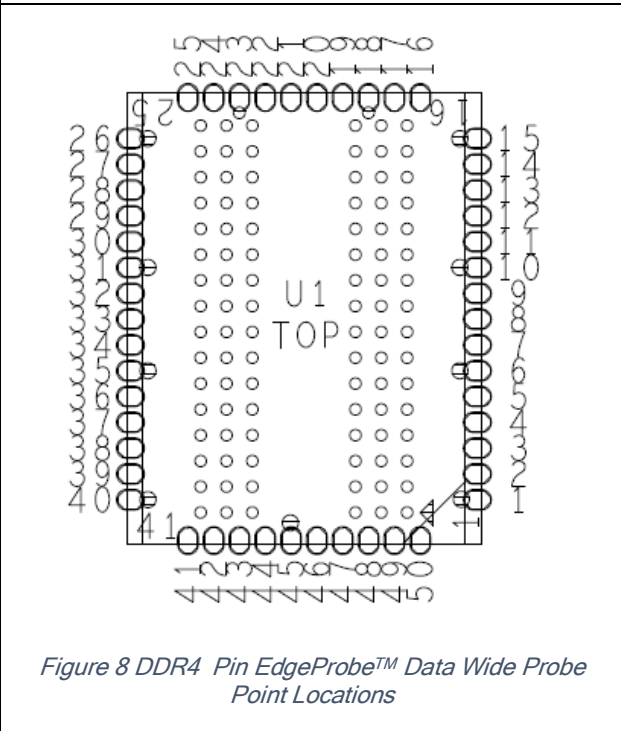


Figure 8 DDR4 Pin EdgeProbe™ Data Wide Probe Point Locations

## Product Configuration Table

Nomenclature	Interposer Type
NEX-DDR4MCI96XHEPSA	Address Narrow
NEX-DDR4MCI96XHEPWA	Address Wide
NEX-DDR4MCI96XHEPSD	Data Narrow
NEX-DDR4MCI96XHEPWD	Data Wide

## Available Accessories

Type	Desc.	Nomenclature
Riser	96 ball Riser elevates interposer 0.050"	NEX-RSRDDR496 <sup>1</sup>
Socket	Memory socket	NEX-SOCKETDDR496
Solder Balls	Install Solder balls on socket	NEX-OPT-SOLDERBALLS-SK

<sup>1</sup> Part number NEX-RSRDDR496 includes solder balls

## 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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