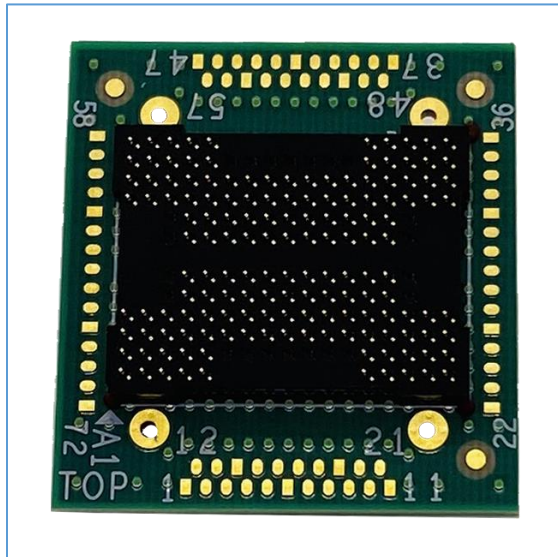


# NAND Interposers

## NAND 152/132 Ball Socketed Interposer



### Key Features

- NAND Flash
- Patented Socket Design
- 152/132
- High fidelity
- Enables oscilloscope Probing

### Applications

- 152/132 NAND
  - Memory validation and debug
  - Monitoring bus traffic
  - Bus traffic measurement
  - Analog insight

### Socketed Interposer Concept

Target Socketed interposers consists of a target socket (sold separately), 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 on to 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 the custom socket on the target essentially removing the affect of the interposer in the target.

## 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.



## Mechanical Outline

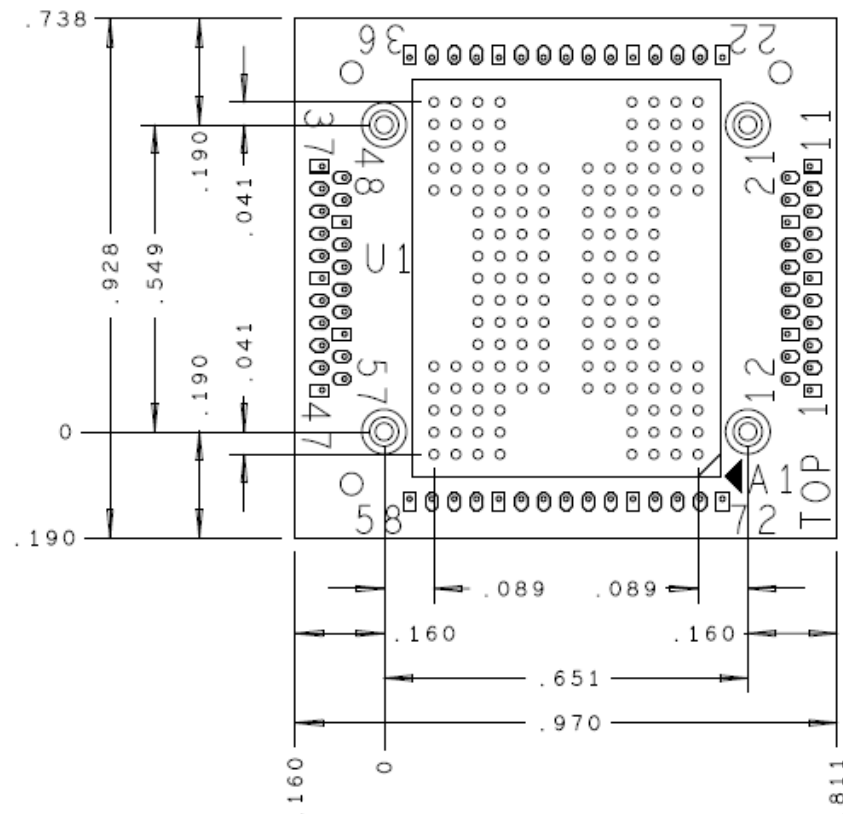


Figure 1 - NAND152/132 Oscilloscope Component Interposer Mechanical Dimensions

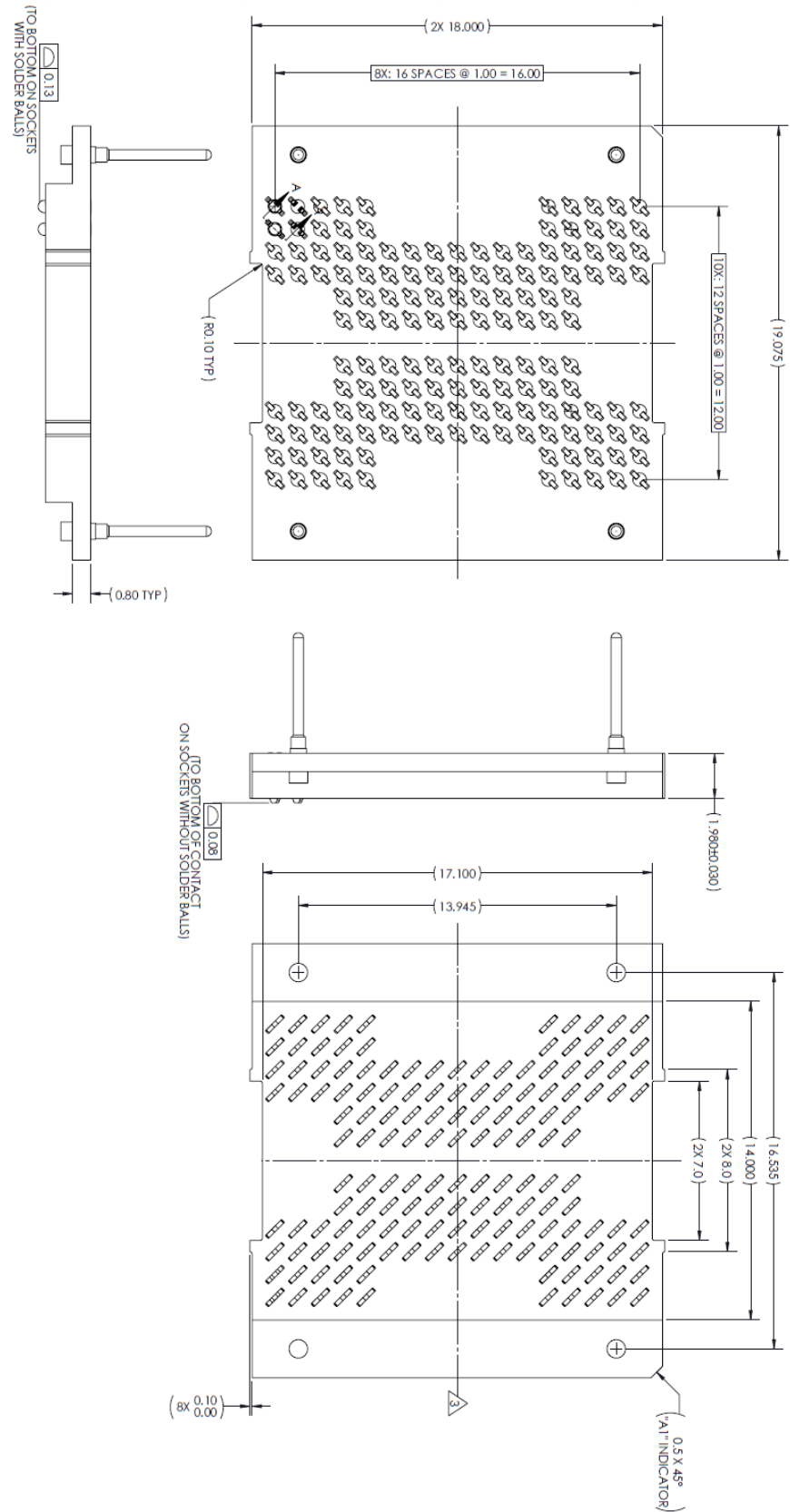
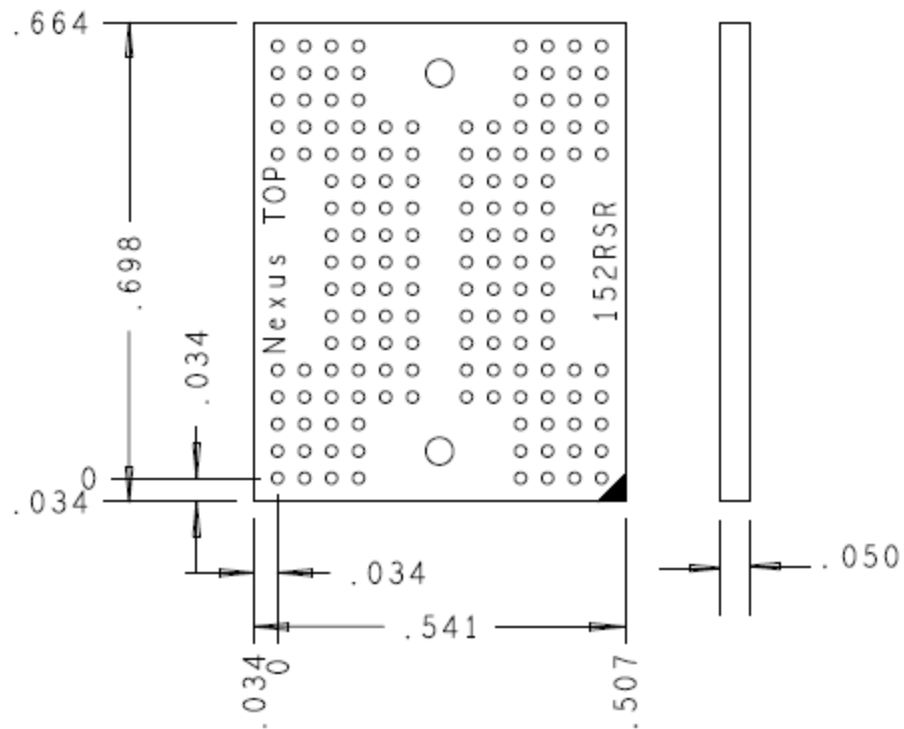
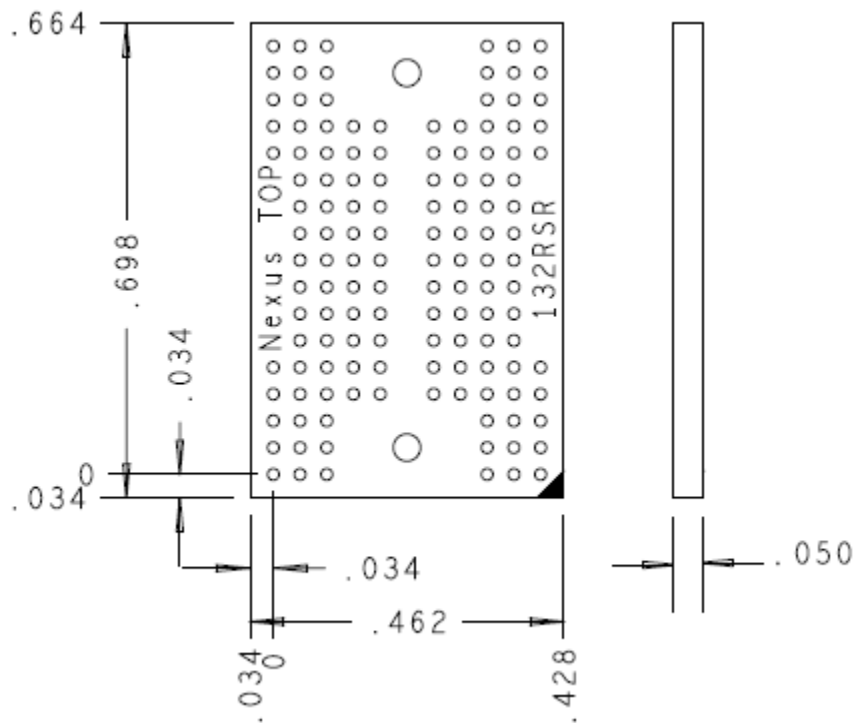


Figure 2 - 152 Ball Custom Target Socket Mechanical Dimensions (sold separately)



*Figure 3 - 152 Ball Riser Mechanical Dimensions (sold separately)*



*Figure 4 - 132 Ball Riser Mechanical Dimensions (sold separately)*

## Probe Point Signal List

TEST Point	Signal	TEST Point	Signal	TEST Point	Signal
1	GND	25	DQ4_0	49	WP_0_n
2	DQ0_1	26	GND	50	GND
3	ALE_1	27	RE_WR_0	51	VDDi_NU
4	Eni_NU	28	WE_CLK_0	52	R_B1_1_n
5	R_B0_0_n	29	RE_0_c	53	CE1_1_n
6	GND	30	DQS_0_t	54	PSL_1_NU
7	PSL_0_NU	31	DQS_0_c	55	GND
8	VSP0	32	GND	56	CE2_1_n
9	CE1_0_n	33	DQ3_0	57	DQ7_1
10	CE2_0_n	34	DQ2_0	58	GND
11	GND	35	DQ1_0	59	DQ5_1
12	CLE_1	36	GND	60	DQ6_1
13	WP_1_n	37	GND	61	DQ4_1
14	GND	38	DQ0_0	62	GND
15	ENo_NU	39	CLE_0	63	WE_CLK_1
16	NU	40	VPP_NU	64	RE_WR_1
17	R_B1_0_n	41	VSP2	65	RE_1_c
18	CE0_0_n	42	GND	66	DQS_1_t
19	GND	43	R_B0_1_n	67	DQS_1_c
20	CE3_0_n	44	VSP1	68	GND
21	DQ7_0	45	CE0_1_n	69	DQ3_1
22	GND	46	CE3_1_n	70	DQ2_1
23	DQ6_0	47	GND	71	DQ1_1
24	DQ5_0	48	ALE_0	72	GND

Probe Point Locations

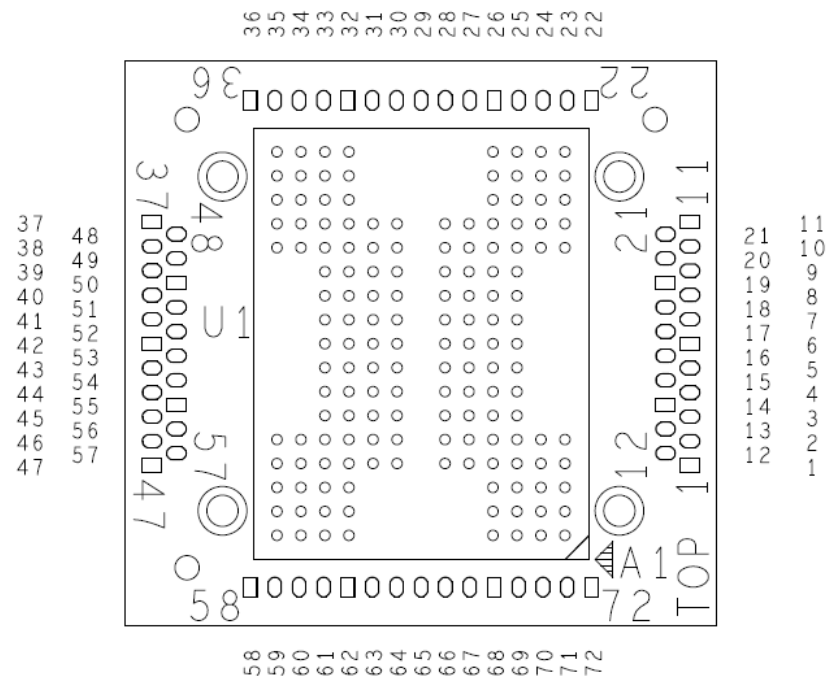


Figure 3 NAND152/132 Oscilloscope Component Interposer Probe Point Locations

## Product Configuration Table

Nomenclature	Memory Component Socket installed on top of interposer
NEX-NAND152BSC	No
NEX-NAND152BSCSK	Yes
NEX-NAND132BSC	No
NEX-NAND132BSCSK	Yes

## Available Accessories Sold Separately

Type	Desc.	Nomenclature
Riser	152 Ball Riser elevates interposer .050" <sup>1</sup>	NEX-RSRNAND152
Riser	132 Ball Riser elevates interposer .050" <sup>1</sup>	NEX-RSRNAND132
Custom Target Socket	Patented Custom Target socket with solder balls included	NEX-NAND152BGASKBA

<sup>1</sup> P/N NEX-RSRNAND152 and NEX-RSRNAND132 include 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.

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