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## DDR3/2 NEXVu VDIMM Sockets

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Many Nexus Technology DDR3 NEXVu VDIMMs are available with sockets. This option allows the end user to more easily change out the memory components on the VDIMM. This document was written to assist the customer in this process.

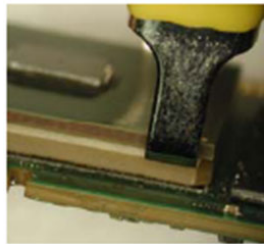
It should be noted that any socket will affect signal quality. The added inductance / capacitance effect on the target should be taken into consideration. At times the added inductance can peak signals; making a better signal than without the sockets. In other cases the signal quality will be lower with the sockets.

### **Memory IC Insertion**

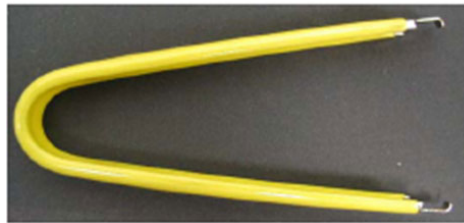
Place the memory IC into the socket making sure the solder spheres fit in the socket slots, not on top of the socket. Apply a load of 45 grams per ball evenly on the top of the memory IC to engage it in to the contacts. A rigid plate matching the profile of the device may be used to assist in distributing the force on the device. When properly inserted the memory IC should be parallel to the top edges of the socket.

### **Memory IC Removal**

Using the provided extraction tool, grip the corner of the device and apply a light force in by tilting the extraction tool as you pull upward. Once the corner of the device is free from the connector contacts the entire device can be easily removed.



Remove Corner First



Socket Extraction Tool

### **Number of insertions**

The sockets are specified for 30 insertion/removal cycles. Each device inserted into the sockets is rated at 3 insertion/removal cycles - after which the solder balls should be replaced.

### **SPD code**

Different memory ICs from different manufactures will require different SPD code on the DIMM. The user is responsible to determine and install this needed code.

**Table of currently supported sockets**

<b>Description</b>	<b>Socket description</b>
DDR2, x8 memory configuration	60 ball 0.45mm diameter ball 0.35mm exposure/height +/-0.05
DDR3, x8 memory configuration	78 ball 0.45mm diameter ball 0.35mm exposure/height +/-0.05
DDR3, x16 memory configuration	96 ball 0.45mm diameter ball 0.35mm exposure/height +/-0.05

## **Nexus Technology Contact Information**

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### **Placing an Order**

Credit Card orders can be placed directly at 877-595-8116.  
Purchase orders can be faxed to 877-595-8118.

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