



Enterprise Server Group

Intel[®] RC440FX UP Server System

Tested Memory List

June, 1998



Revision History

Revision	Revision History
June, 1998	Added Rev. History. Added Product Discontinuance Statement. Updated for June.

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Please Note: DIMM devices with gold contacts should NOT be placed into DIMM sockets with tin-lead contacts or vice-versa. Mixing dissimilar metal contact types has been shown to result in unreliable memory operation. Intel recommends similar manufacturer and similar speeds in each bank on the memory module. Mixing of dissimilar memory manufacturer and similar speeds in each bank on the memory module is NOT recommended.

Introduction

The R440FX UP Server product has been discontinued. It is the policy of the Intel internal memory testing facility to discontinue testing of memory devices for compatibility upon the final shipment of a product. Therefore, the R440FX UP Server product will not be tested for compatibility with any additional memory devices through Intel internal testing.

The following Tables list the memory modules that have been Intel tested and approved for use with the RC440FX UP Server. The RC440FX UP Server supports the following memory features:

- 168-pin gold-plated EDO or Fast Page DIMM modules
- Support for single or double-sided DIMMs
- Support for up to 1 GB DRAM
- 3.3V memory only
- Support for DIMM sizes of 8, 16, 32, 64, 128, 256 MB

Memory features of the RC440FX UP Server system are detailed in the *R440FX UP Server Technical Product Specification (Order Number 282958)*, available on-line at www.intel.com/support.

Testing of memory modules occurs on three levels: Level 1, Level 2, and Level 3. Upon the completion of testing, the memory module is designated at the level at which it has been tested (this is indicated in the third column of the table). The definitions for these testing levels are as follows:

Level 1 Testing Intel Tested and Approved: The DIMM device has been electrically tested by Intel Engineering and is known to be compatible with the board set/baseboard or the associated memory module. Rigorous environmental testing, voltage margin, shock, and vibration testing were conducted on these DIMM devices. In addition, the vendor has met or exceeded Intel's product change, quality control, and availability requirements. The DIMM device has an Intel part number associated with the device.

Level 2 Testing Intel Tested: The DIMM device has been electrically tested by Intel Engineering and is known to be compatible with the server board set/baseboard or associated memory module. Rigorous environmental testing, voltage margin, shock, and vibration testing were conducted on these DIMM devices. The vendor has Intel's product change, quality control, and availability requirements.

Level 3 Testing Intel Tested: This level of testing is considered a reference level. The DIMM device has been electrically tested by Intel Engineering. A small sample has been tested across voltage and temperature margins and is known to be compatible with the server board set/baseboard or associated memory module. A partial sample of the tested DIMMs are kept on hand for reference.

This list is not intended to be all-inclusive. It is provided as a convenience to Intel's general customer base, but Intel does not make any representations or warranties whatsoever regarding the quality, reliability, functionality, or compatibility of these memory modules. Memory modules not listed in the following tables may be used, however, in the event of unreliable system operation, the modules should be replaced with Level 1 or Level 2 Intel tested memory modules to determine whether the unlisted modules are causing the problem. This list is subject to change without notice.

RC440FX UP Server - Intel Tested Memory List

Shading indicates the latest additions to the list.

The levels of testing are defined in the Introduction of this document.

DRAM DIMM Modules					
Manufacturer	Part #	Level	Intel Part #	DIMM Type	Size
8 MB Memory					
IBM	IBM11M1730BBH-60	2	N/A	1Mx72	8MB
Samsung	KMM372F-124AJ-6	1	800065-060	1Mx72	8MB
Samsung	KMM372V120CT1-6	1	801000-060	1Mx72	8MB
Simple Tech.	I721007D1-6GVSASCA	2	N/A	1Mx72	8MB
16 MB Memory					
Fujitsu	EDC2BV7282-60JG-S	2	N/A	2Mx72	16MB
IBM	IBM11M2735HBE-60	2	N/A	2Mx72	16MB
Micron	MT9LD272NG-60X	1	800066-060	2Mx72	16MB
Samsung	KMM372F213AJ-6	1	800066-060	2Mx72	16MB
Samsung	KMM372V213AT-6	1	801001-060	2Mx72	16MB
Samsung	KMM372F213BK-6U	1	800066-060	2Mx72	16MB
Simple Tech.	I722007D1-6GVSASAA	2	N/A	2Mx72	16MB
Toshiba	THM72V2015BTG-60	2	N/A	2Mx72	16MB
32 MB Memory					
Fujitsu	EDC4BV7242-60JGS	2	N/A	4Mx72	32MB
IBM	IBM11M4735CBE-60J	2	N/A	4Mx72	32MB
Micron	MT18LD472NG-60X	1	800075-060	4Mx72	32MB
Mitsubishi	MH4V7245CATJ-6	2	N/A	4Mx72	32MB
NEC	MC-424000LFC72F-A60	1	N/A	4Mx72	32MB
Net Memory	NM472G2E6/B3/M1M1A	2	N/A	4Mx72	32MB
Samsung	KMM372F400BK-6	1	800075-060	4Mx72	32MB
Samsung	KMM372V400AS-6	1	801002-060	4Mx72	32MB
Samsung	KMM372F400BK-6U	1	800075-060	4Mx72	32MB
Samsung	KMM372F404AS-6	1	800075-060	4Mx72	32MB
Simple Tech.	I724007D1-GVSASAA	2	N/A	4Mx72	32MB
TI	TM4EPU72BPB-60	1	800075-060	4Mx72	32MB
Viking	INT472BEMAMA0A-60	2	N/A	4Mx72	32MB
64 MB Memory					
Dataram	DR72LED64NAANA-60	2	N/A	8Mx72	64MB
Hitachi	HB56UW873E-6A	2	N/A	8Mx72	64MB
Micron	MT9LD872G-6X	1	800902-060	8Mx72	64MB
NEC	MC-428LFC72FB-A60	2	N/A	8Mx72	64MB
Net Memory	NM872G2E6/B3D/M1M1A	2	N/A	8Mx72	64MB
Samsung	KMM372F803AK-6	1	800076-060	8Mx72	64MB
Samsung	KMM372V803AT-6	1	801003-060	8Mx72	64MB
Samsung	KMM372F803AK-6U	1	800076-060	8Mx72	64MB
Simple Tech.	I728007D2-6GVNANAA	2	N/A	8Mx72	64MB
Vision Tek	N0301.OSASA-60	2	N/A	8Mx72	64MB
Viking	INT872BEMAMA0A-60	2	N/A	8Mx72	64MB

DRAM DIMM Modules (con't)					
Manufacturer	Part #	Level	Intel Part #	DIMM Type	Size
128 MB Memory					
Dataram	DR72LED128NAANA-60	2	N/A	16Mx72	128MB
Hitachi	HB56UW1673E-6A	2	N/A	16Mx72	128MB
Micron	MT18LD1672G-6X	1	800095-060	16Mx72	128MB
Mitsubishi	MH16V725ATJ-6	2	N/A	16Mx72	128MB
NEC	MC-4216LFC72FB-A60	2	N/A	16Mx72	128MB
Samsung	KMM372F1600AK-60	1	800095-060	16Mx72	128MB
Samsung	KMM372V1600AS-6	1	801004-060	16Mx72	128MB
Samsung	KMM372F1600AK-6U	1	800095-060	16Mx72	128MB
Vision Tek	N0401.OSASA-60	2	N/A	16Mx72	128MB
Viking	INT1672BESASA0A-60	2	N/A	16Mx72	128MB
256 MB Memory					
Hitachi	HB56UW3273E-6A	2	N/A	32Mx72	256MB