

EMI-PRESCAN Test Report

Model Name: **RM11602**



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TABLE OF CONTENTS

1. EXECUTIVE SUMMARY OF RESULTS	3
2. INTRODUCTION	3
3. TEST CONFIGURATION	3
4. CHASSIS DESCRIPTION (AS TESTED).....	4
5. TEST FACILITY USED	4
6. SUPPORT SOFTWARE	5
7. TEST SETUP AND PROCEDURE.....	5
8. TEST RESULTS	6
9. CONCLUSION	6
10. APPENDIX A - SYSTEM SETUP	7
11. APPENDIX B - REALTIME TREND.....	8

1. Executive Summary of Results

The Chenbro Micom [RM11602](#) Chassis provides adequate cooling for the [IWILL DK8S2-SATA](#) motherboard with [two Western Digital 80GB SATAII](#) Hard Drives and [Dual 2.8GHz AMD Opteron 254](#) processors.

EMI-PRESCAN Test	Test Results
Class B	PASS

Table 1 – Summary of Results

2. Introduction

The purpose of this test is to ensure that the design of tested chassis model can pass the EMI test under specific configuration.

This report has defined test configuration, test setup, test procedures and all the relevant modifications. The test result would be valid only when the same circumstance has been applied.

The test was done by Chenbro Micom Co., Ltd. which is located at following address:

15Fl., No.150,Jian Yi Road, Chung Ho City, Taipei Hsien, Taiwan, R.O.C.

3. Test Configuration

The tested system configuration is as following.

Component	Manufacturer	Model Number	Q'ty	Specification
Chassis	Chenbro	RM11602 Ver.B	1	Rackmount Server chassis
Main Board	IWILL	DK8S2-SATA	1	Full function
CPU Type	AMD	Dual 2.8GHz Opteron	2	Dual Socket 940/Opteron 254
Memory	Kingston	KVR333X72RC25/512	4	PC2700 DDR with ECC Registered memory modules
Chipset	AMD	8131 chipset	1	Full Function
VGA (on board)	ATI	ATI Rage XL	1	8M on board
LAN (on board)	Intel	82541PI	2	1Gb/s Controller
SATA (on board)	Silicon Image	3114	4	SATA 150 Connector
Hard Drive	Western Digital	WD800JD-22LSA0	2	SATAII 80GB
HDD Backplane	Chenbro	80-103116-001	1	SATA HDD Backplane
CD-ROM	ASUS	CD-S520/A4	1	52X speed
PSU	FSP	FSP500-80BU	1	1U 500W with PFC
System Fan (Middle)	Sanyo Denki.	109P0412J3013	1	40x40x28/12500 RPM
System Fan (Middle)	Sanyo Denki	9CR0412S501	4	40x40x56/Inlet 15800RPM Outlet 10600RPM
CPU Cooler	Chenbro	66-080000-021	2	Passive Heat Sink

Table 2 – System Configuration

4. Chassis Description (as Tested)

The RM11602 chassis is a Rackmount Server chassis that may ship with a 500W power supply (optional) and five system fans. It has one exposed standard CD-ROM drive bay and two 3.5" HDD Hot Swap drive bays.

The dimensions of this chassis are 26"D x 16.9"W x 1.7"H.

The chassis is manufactured by Chenbro Micom Co., Ltd. which is located at following address:

15Fl., No.150,Jian Yi Road, Chung Ho City, Taipei Hsien, Taiwan, R.O.C.

5. Test Facility Used

Test Facility

Item	Manufacturer	Model
3M EMC Chamber	Chenbro	N/A
Absorber	Schaffner	CBL6112B
EMC Analyzer	HP	E7401

Table 3 – Test Facility

3M EMC Chamber

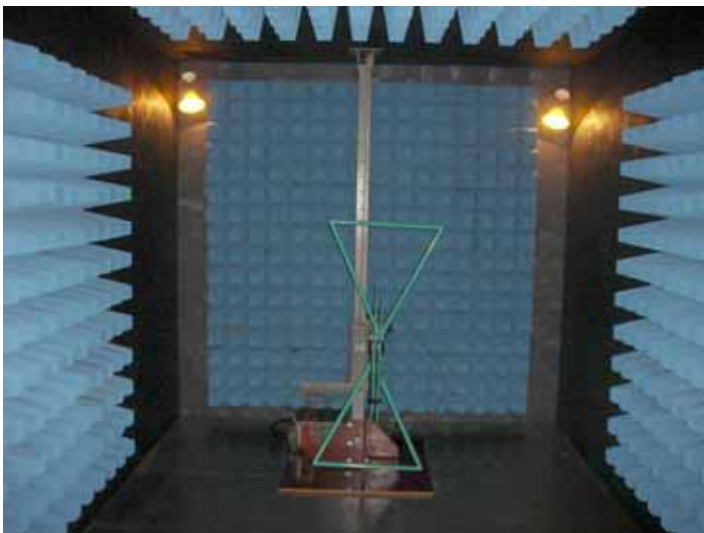


Fig. 1 –3M EMC Chamber



Fig. 2 –TEST SYSTEM



Fig. 3 – EMC Analyer

6. Support Software

The following software was used in this test.

- ♦ Windows 2000 Server (English version)
- ♦ E2000

7. Test Setup and Procedure

- ♦ Installation of the tested system
- ♦ Installation of the operating system with device drivers
- ♦ Place the tested system into 3M EMC chamber
- ♦ Power up the tested system
- ♦ Rotate the tested system 360° degree.
- ♦ Run E2000 to record the measurements

8. Test Results

Test Frequency	Test Results
30MHz~300MHz(Horizontal)	Pass
30MHz~300MHz(Vertical)	Pass
200MHz~1GHz(Horizontal)	Pass
200MHz~1GHz(Vertical)	Pass

Table 4 – Test result

9. Conclusion

The [RM11602](#) chassis (as tested) does provide EMC protecting for this system (as Table 2 list).

The tested system does not necessarily represent the absolute worst-case that the system is subject to.

10. Appendix A - System Setup



Fig.4 – System Setup



Fig. 5 – Fuselage lid venting

11. Appendix B - Real-Time Trend

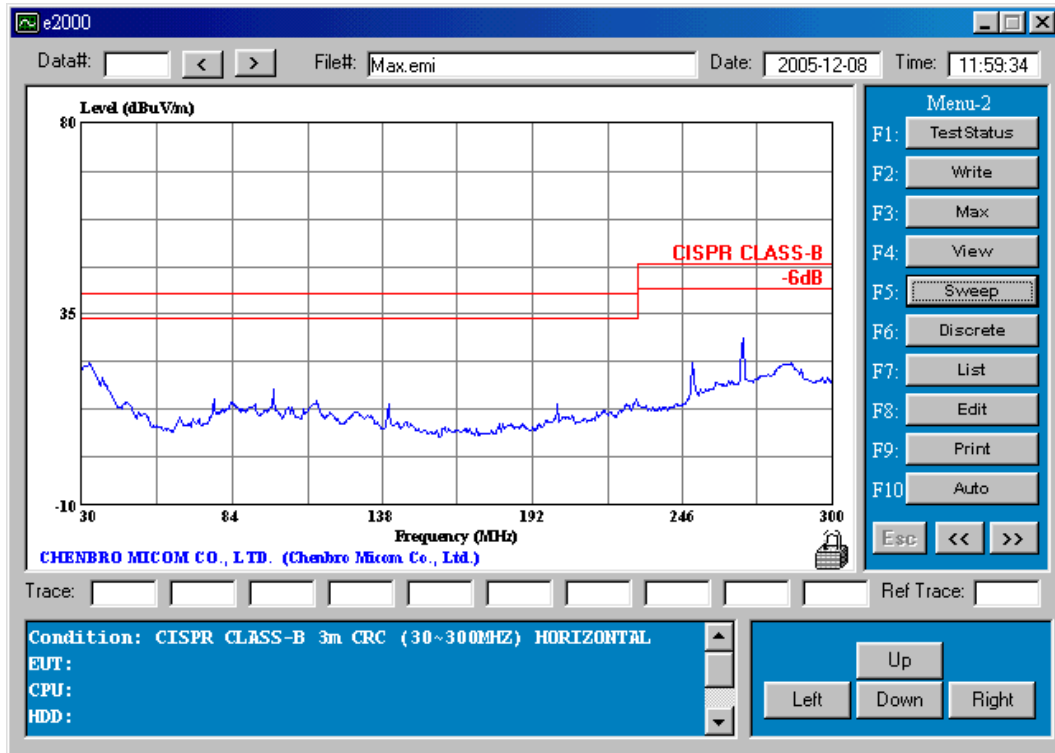


Fig.6 – (30~300MHZ) Horizontal

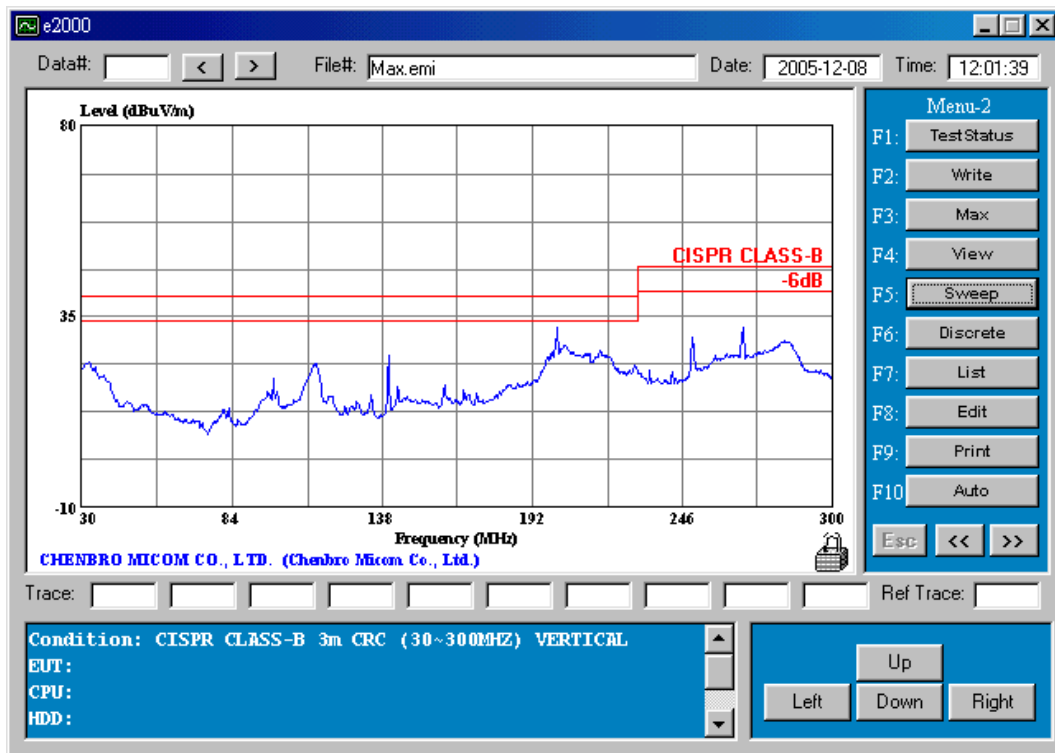


Fig.7 – (30~300MHZ) Vertical

