

ELECTROMAGNETIC COMPATIBILITY TEST

FCC.TR. 06.048

Prima Ricerca & Sviluppo Srl soggetta a direzione e coordinamento da parte della Giovanni Maspero & C. S.p.A. – C.I. 02634780130 Sede legale : 22100 Tavernola (CO) Via Conciliazione, 1 Cod. FISC. e N. R.I. CO 02635860139

Sede operativa : Laboratori Via Campagna, 92 22020 Faloppio fraz. Gaggino (CO) Tel. +39 03135000.11 Fax +39 031991309

EQUIPMENT UNDER TEST:

APPARECCHIO IN PROVA:

DERIVED MODELS:

APPARECCHI DERIVATI:

SAFETY SECURE DIGITAL I/O model Oberon SSD/IO

SAFETY SECURE DIGITAL model Oberon SSD90xx

REFERENCE STANDARDS: FCC 47CFR Part 15

NORME DI RIFERIMENTO:

CUSTOMER:

RICHIEDENTE:

• Dept. / Firm : OBERON SERVICE S.r.l.

Ente / Società':

Massimo Mantovan

Sig.:

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Site of test execution:

Via Campagna, 92 - 22020 Gaggino Faloppio (CO) - Italy

Località esecuzione prove:

Date of test samples receipt: 20/01/2006 Date of start test: 23/01/2006

Fax ·

Data ricevimento campioni:

Date of end test: Data fine prove:

Data inizio prove:

23/01/2006

Witness to the test: Presenti alle prove:

Signature of the engineers:

Firma esecutore prove:

Signature of the Laboratory Director:

Firma Direttore Laboratori:

Nobody / Nessuno

Francesco Barbierato

Furfari Roberto

The test results recorded in this Test Report are exclusively referred to the tested samples. I risultati del presente rapporto di prova si riferiscono esclusivamente al campione sottoposto a prova.

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Edit. 1.0 sheet 1 of 18



ELECTROMAGNETIC COMPATIBILITY TEST

FCC.TR. 06.048

sheet 2 of 18

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0 CONTENTS

			Re	Date
			V	
0	CONTENTS	2	0	01-02-06
,	Abbreviations used in the test report:	2	0	01-02-06
1	TECHNICAL INFORMATION OF EQUIPMENT UNDER TEST (EUT)	3	0	01-02-06
	1.1 E.U.T. identification	3	0	01-02-06
	1.2 E.U.T. classification	3	0	01-02-06
	1.3 Modifications incorporated in E.U.T.	3	0	01-02-06
	1.4 Ports identification		0	01-02-06
	1.5 Auxiliary equipment	4	0	01-02-06
	1.6 Operating test modes and test Conditions	5	0	01-02-06
	1.7 Test overview		0	01-02-06
2	REFERENCE STANDARD FOR PERFORMED TESTS	5	0	01-02-06
3	SUMMARY OF TEST RESULTS	6	0	01-02-06
;	3.1 EMISSION TESTS	6	0	01-02-06
;	3.2 TEST RESULTS	7	0	01-02-06
4	EUT TECHNICAL DOCUMENTATION	15	0	01-02-06
4	4.1 Wiring diagrams	15	0	01-02-06
4	4.2 Technical manual		0	01-02-06
4	4.3 Photographic documentation		0	01-02-06
5	TECHNICAL REPORT OF ANALYSIS OF DERIVED PRODUCTS	18	0	01-02-06

Abbreviations used in the test report:

E.U.T. Equipment Under Test

EMC Electromagnetic Compatibility

N.A. Not Applicable

N.R. Not requested by the client

Edit. 1.0



ELECTROMAGNETIC COMPATIBILITY TEST

FCC.TR. 06.048

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1 TECHNICAL INFORMATION OF EQUIPMENT UNDER TEST (EUT)

1.1 E.U.T. identification

Brand name: after marked (Toshiba, Samsung, ST, HYNIX)

Manufacturer: OBERON SERVICE Srl

Model name or No.: Oberon SSD/IO

Part number / Serial No.: Not present

FCC ID: FCC ID: UKZSSD901XX

Country of manufacturer: Italy

1.2 E.U.T. classification

Equipment Classification: For home or office use

Equipment Class: Class B

Highest frequency generated or used in the device or on which the

device operates :

Supply voltage:

20 MHz24,5 MHz

2,0 ÷ 3,6 Vdc (basic communication)

Input Power / Current : < 500 mA

Single or Multiple Unit: single

EUT Dimensions : 24,0 x 47,0 x 5,6 mm

EUT standing: Inside of portable appliance and inside of Personal

Computer. The EUT implemented a serial interface in

order to connect it to external devices.

Indoor / outdoor cables Indoor

1.3 Modifications incorporated in E.U.T.

The following items are the modifications introduced in the equipment under test:

None

Edit. 1.0 sheet 3 of 18



ELECTROMAGNETIC COMPATIBILITY TEST

FCC.TR. 06.048

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1.4 Ports identification

This section contains descriptions of all signal ports and AC/DC power input/output ports, the maximum length and the type of the cable provided by manufacturer needed for the tests.

Moreover it is specified if the ports are ever or optionally connected.

Port		Description	Connection
1	Enclosure	Plastic cover	Ultrasonic soldering
2	AC power input/output ports	Not present	
3	DC power input/output ports	Micro SD card power supply 2,0 ÷ 3.6 Vdc	Micro SD pads
4	Signals ports	RS232 serial communication line. Max. cable long = 50 cm	MOLEX 8-PIN 1mm PITCH Header

Note: During the tests all cables must be what provided the manufacturer or the same that used in the real employment of the EUT.

1.5 Auxiliary equipment (AE)

- Laptop PC COMPAQ mod. EVO7023N
- SD/MMC with USB plug to direct connection to PC



Edit. 1.0 sheet 4 of 18



ELECTROMAGNETIC COMPATIBILITY TEST

FCC.TR. 06.048

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1.6 Operating test modes and test Conditions

The equipment has been tested according to the operative conditions described in the user/installation manual provided by the manufacturer and by following reference standards:

Reference Standard:

FCC Part 15, Subpart B

In the following table there are the operating conditions adopted during tests identified by an indicator (#..) at which has been referred the item "Operating condition of the equipment under test" of all technical sheets of the tests (see Section 3)

Operating condition (#)	Description of the mode of operation	
#1	The EUT is inserted to an AE system composed by a SSD/IO card reader connected to Laptop PC via USB. The EUT is written and read repeatedly by an ad-hoc routine running in the Laptop PC.	
#2	Serial RS 232 I/O operational mode	

1.7 Test overview

Sample tested is the main model of a complete set of Safety Secure Digital (SSD/IO). The appliance is classified as "unintentional radiator" in conformity to FCC Part 15 Sub. B §15.109, §15.107, and it is subject to "Declaration of Conformity" procedure. The application is mainly used as mass portable read/write storage device. The Oberon SD has the capability to communicate with devices using RS232 or driving/sensors using 2 Digital – I - O pins.

2 REFERENCE STANDARD FOR PERFORMED TESTS

Reference standard :	Title:
FCC Part 15 part A	Code of Regulations Part 15 (Radio Frequency Devices),
	Subpart A (General) of the Federal Communication
	Commission (FCC)
FCC Part 15 part B	Code of Regulations Part 15 (Radio Frequency Devices),
	Subpart B (Unintentional Radiators) of the Federal
	Communication Commission (FCC)
ANSI C63.4	American National Standard for Methods of Measuring of
	Radio-Noise Emissions from Low-Voltage Electrical and
	Electronic Equipment in the Range of 9 kHz – 40 GHz

Edit. 1.0 sheet 5 of 18



ELECTROMAGNETIC COMPATIBILITY TEST

FCC.TR. 06.048

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3 SUMMARY OF TEST RESULTS

3.1 EMISSION TESTS

Phenomenon	Application	Basic standard	Operating condition	Test result
Radiated disturbance	Enclosure	FCC 47CFR	#1, #2	Within the limit
disturbance		Part 15		
	DC input/output port	FCC 47CFR	Not applicable ¹	
Conducted		Part 15		
emission	AC mains input/output	FCC 47CFR	#1, #2	Within the limit
	port	Part 15		

Issue date: 01/02/2006

Edit. 1.0 sheet 6 of 18

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¹ Not applicable: port not present



ELECTROMAGNETIC COMPATIBILITY TEST

FCC.TR. 06.048

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3.2 TEST RESULTS

EMISSION OF MAINS TERMINAL DISTURBANCE VOLT	AGE8
ELECTROMAGNETIC RADIATED FIELD DISTURBANCE	F EMISSION TEST 12

Edit. 1.0 sheet 7 of 18



ELECTROMAGNETIC COMPATIBILITY TEST

FCC.TR. 06.048

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TEST 1.

EMISSION OF MAINS TERMINAL DISTURBANCE VOLTAGE

REFERENCE DOCUMENT

FCC PART 15 subpart B

• **TEST LOCATION:** Semi-anechoic chamber (CISPR 16-1 :1993)

Siemens+Matsushita type B84117-D6019-T232

Measure distance 3 meters

• TEST EQUIPMENT USED FOR TEST: EMI receiver Rohde & Schwarz Mod. ESMI

Artificial Network Rohde & Schwarz Mod. ESH3-Z5

• TESTED PORT: AC mains
• FREQUENCY RANGE: 0.15 - 30 MHz

EMISSION LIMITS: Acc. to reference document 15.107
 MEASUREMENT UNCERTAINTY: Total uncertainty (k=2) ± 2.5 dB

TEST CONDITIONS:			MEASURED
Ambient temperature :	15 - 35 °C		24 ± 3 °C
Ambient humidity :	25 - 75 %rH		40 ± 5 %rH
Pressure :	85 - 106 kPa	(860 mbar - 1060 mbar)	950 ± 50 mbar
Voltage :	110Vac		110 Vac ± 3%

OPERATING CONDITION (Rif. Section. 2): #1, #2

RESULT: Within the limits

Edit. 1.0 sheet 8 of 18



ELECTROMAGNETIC COMPATIBILITY TEST

FCC.TR. 06.048

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SCAN TABLE: Voltage Mains

Unit: dBµV

Curve 1: MaxPeak ClearWrite
Curve 2: Average ClearWrite

Start Frequency: 150.0 kHz

Stop Frequency: 30.0 MHz IF Bandwidth: 9 kHz Measure Time: 10.0 ms Step size: 6 kHz

Receiver: **ESMI** Transducer: ESH3-Z5_PRC Rfin1-CP2/X11 Signal Path: Path 3 System Transducer : Meas. Mode: Lin Add. Transd. 1: W71.03 Tracking Generator: Off Add. Transd. 2: None Add. Transd. 3: Input: 1AC None

Preamplifier:10 dBDemodulation:FM BroadRF Att.:CoupledVolume:0 %Ref. Level:-10 dBmSquelch:--Min. RF Att.:0 dBOption:None

IF Att.: 0 dB Autorange: On

Curve 1 :OnRepetition :SingleCurve 2 :OnStop Mark :On

Stop Message: On

Stop Message: Connect EUT

Edit. 1.0 sheet 9 of 18

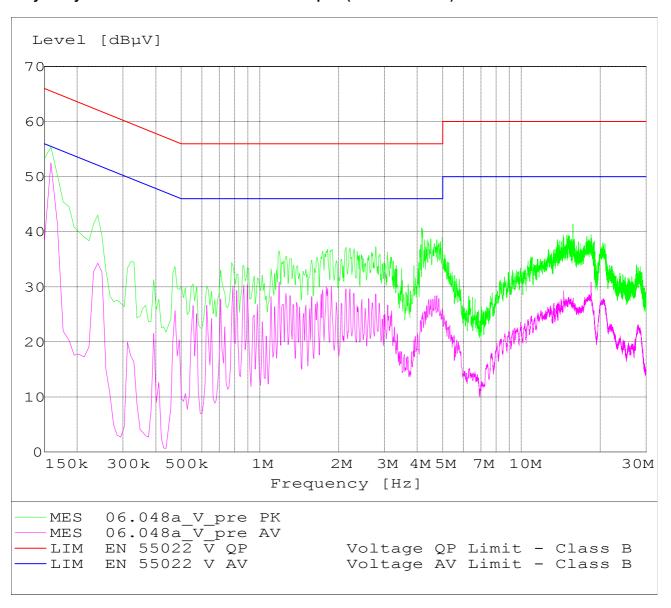


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Only AE system without EUT connected to USB port (worst condition)



Edit. 1.0 sheet 10 of 18

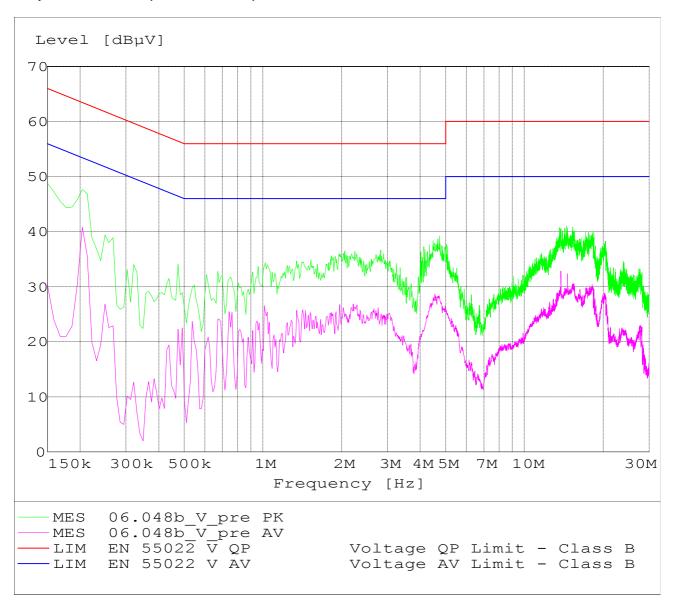


ELECTROMAGNETIC COMPATIBILITY TEST

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With EUT powered by a Personal computer COMPAQ model EVO N1020V in oper. condition #1 (worst condition)



Edit. 1.0 sheet 11 of 18



ELECTROMAGNETIC COMPATIBILITY TEST

FCC.TR. 06.048

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TEST 2.

ELECTROMAGNETIC RADIATED FIELD DISTURBANCE EMISSION TEST

REFERENCE DOCUMENT

FCC47CFR Part 15

• TEST SETUP: According to reference standard

• TEST LOCATION: Semi-anechoic chamber (CISPR 16-1:1993)

Siemens+Matsushita type B84117-D6019-T232

Measure distance 3 meters

• TEST EQUIPMENT USED FOR TEST: EMI receiver Rohde & Schwarz Mod. ESMI

Chase Antenna Mod. CBL 6111 C

TESTED PORT: Enclosure
 FREQUENCY RANGE: 30 - 1000 MHz

• EMISSION LIMITS: Section 15.109 of Standard

• **UNCERTAINTY OF MEASURE:** Combined uncertainty = ± 1.75 dB

Total uncertainty = $(k=2) \pm 3.5 dB$

TEST CONDITIONS:			MEASURED
Ambient temperature :	15 - 35 °C		24 ± 3 °C
Ambient humidity :	25 - 75 %rH		33 ± 5 %rH
Pressure :	85 - 106 kPa	(860 mbar - 1060 mbar)	950 ± 50 mbar
Voltage :	2,7 ÷ 3.6 Vdc		by auxiliary equipment powered with USB port

OPERATING CONDITION (Rif. Section. 2): #1, #2

RESULT: WITHIN THE LIMIT

Edit. 1.0 sheet 12 of 18



ELECTROMAGNETIC COMPATIBILITY TEST

FCC.TR. 06.048

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SCAN TABLE: "Radiated Emission"

Unit: $dB\mu V/m$

Detector: Mode:

MaxPeak ClearWrite Curve1: ClearWrite Curve2:

Subrange1:

Start Frequency: 30.0 MHz Step Size: 80 kHz Stop Frequency: 1000.0 MHz IF Bandwidth: 120 kHz

Measure Time: 10 ms

ESXI CHASE_6111_PRC Receiver: Probe Transducer: RFin2-CP1/X11 Signal Path: Path 4 System Transducer:

Scan Mode: Lin Tracking Gen.: Off Input: 2 DC

10 dB Demodulation: FM Broad Preamplifier: RF att.: Coupled Volume: 0.0% Ref. Level: -50 dBm Squelch: Min. RF att.: 0 dBm Option: None

Autorange: On

Curve 1: On Repetition: Single Curve 2: Off Stop Mark: On

Stop Message: On

Add. Transducer:

Text: Connect antenna

W71.01

Edit. 1.0 sheet 13 of 18

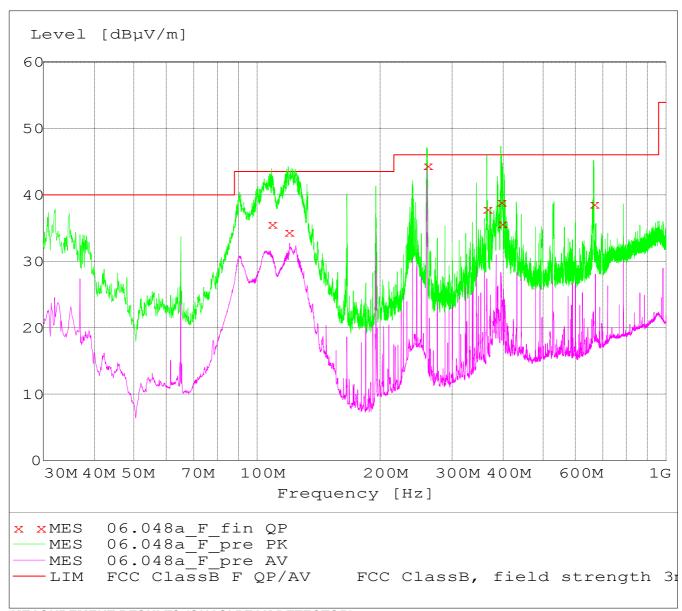


ELECTROMAGNETIC COMPATIBILITY TEST

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#1 (worst condition)



MEASUREMENT RESULTS (QUASI PEAK DETECTOR)

Frequency	Level	Transd	Limit	Margin	Height	Azimuth	Polarisation
MHz	dBµV/m	dB	dBµV/m	dB	cm	deg	
108.480000	35.60	13.10	43.50	7.90	300.0	180.00	HORIZONTAL
119.120000	34.40	13.90	43.50	9.10	305.0	177.00	HORIZONTAL
260.320000	44.40	16.40	46.00	31.60	287.0	147.00	HORIZONTAL
364.400000	37.90	18.60	46.00	28.10	160.0	315.00	HORIZONTAL
394.320000	39.00	19.60	46.00	27.00	151.0	242.00	HORIZONTAL
396.480000	35.70	19.70	46.00	16.30	100.0	66.00	HORIZONTAL
665.200000	38.70	24.80	46.00	22.30	170.0	225.00	HORIZONTAL

Edit. 1.0 sheet 14 of 18



ELECTROMAGNETIC COMPATIBILITY TEST

FCC.TR. 06.048

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4 EUT TECHNICAL DOCUMENTATION

4.1 Wiring diagrams

	Document reference (n., edition, date,)
WIRING DIAGRAM	Oberon Service Srl title: Secure Digital Card & I/O Dwg. No. 001-050707-OberonSD Rev. 1.0 Date: 2005-11-08 Sheet no. 1
PART LIST	Oberon Service Srl title: Secure Digital Card & I/O Rev. 0.0 Date: 2005-07-08 Sheet no. 1

4.2 Technical manual

	Document reference (n., edition, date,)
API Developers Guide	SSD/SSDIO API Developers Guide Manual release : 1.3B Manual date: December 2005

Edit. 1.0 sheet 15 of 18

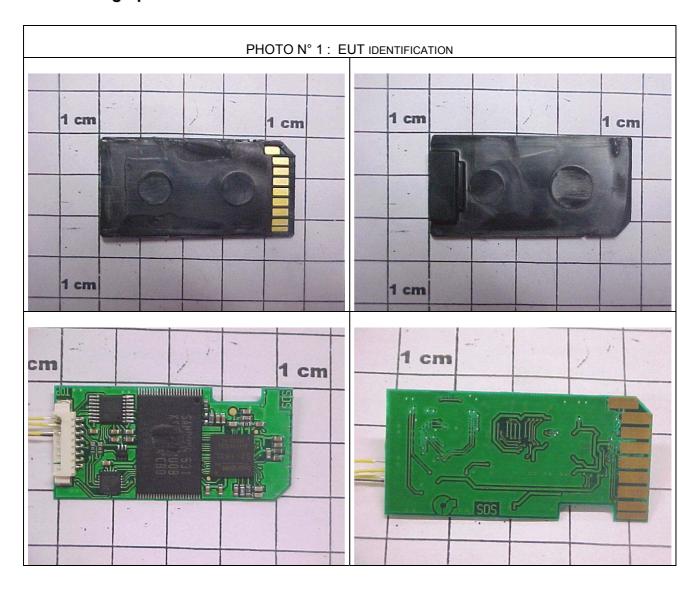


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4.3 Photographic documentation



Edit. 1.0 sheet 16 of 18

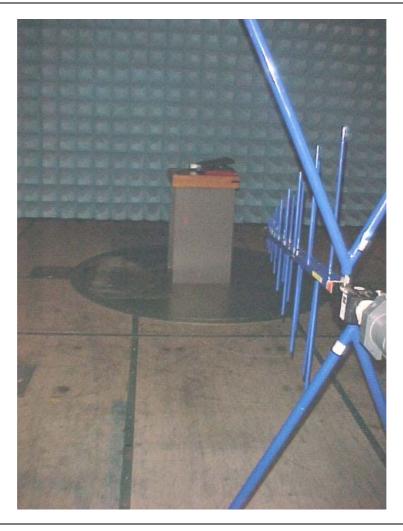


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PHOTO N° 2: SET-UP FOR RADIATED EMISSION TEST



Edit. 1.0 sheet 17 of 18



ELECTROMAGNETIC COMPATIBILITY TEST

FCC.TR. 06.048

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5 TECHNICAL REPORT OF ANALYSIS OF DERIVED PRODUCTS

EQUIPMENT under ANAL	Manufacturer	
BASIC MODEL	SAFETY SECURE DIGITAL I/O model Oberon SSD/IO	
DERIVED MODELS	SAFETY SECURE DIGITAL model Oberon SSD90xx	OBERON SERVICE

Prima Ricerca & Sviluppo, just on the basis of the following technical documents:

1.	Wiring diagram	Oberon Service Srl title: Secure Digital Card & I/O Dwg. No. 001-050707-OberonSD Rev. 1.0 - Date: 2005-11-08 - Sheet no. 1
2.	Mounting plain / PCB layout	
3.	Part list	Oberon Service Srl title : Secure Digital Card & I/O Rev. 0.0 - Date : 2005-07-08 - Sheet no. 1

We state as follows:

- the basic model and the derived models have the same enclosure
- the basic model and the derived models have the same printed circuit board, the same wiring diagram
- the derived models does not mount the I/O circuit and related parts
- ◆ The differences between the basic model and the derived models are DENSITY and CMOS NAND E2EPROM type (128, 256, 512 MBIT and 1 or 2 GBIT on NAND flash devices TSOP 48 pins)

On this basis, Prima Ricerca & Sviluppo considers the basic model equally critical to the derived models, from the EMC point of view.

Therefore, all the measures performed on the basic model and carried in this test report, are completely extendable to the derived models.

Edit. 1.0 sheet 18 of 18