



EMC Test Data

Client:	Summit Data Communications	Job Number:	J71248
Model:	SDC-CF10AG	T-Log Number:	T71257
Contact:	Ron Seide	Account Manager:	Dean Eriksen
Emissions Standard(s):	EN 301 489-17 v1.2.1	Class:	-
Immunity Standard(s):	EN301 489-1 V1.6.1 (2005-09)	Environment:	Wireless

EMC Test Data

For The

Summit Data Communications

Model

SDC-CF10AG

Date of Last Test: 4/5/2008



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EUT INFORMATION

The following information was collected during the test session(s).

General Description

The EUT is a wireless local area network (HIPERLAN) type 1 card. Since the EUT would be placed on a table top during operation, the EUT was treated as table-top equipment during testing to simulate the end-user environment. The EUT power is normally supplied by a host system.

Equipment Under Test

Manufacturer	Model	Description	Serial Number	FCC ID
Summit Data Communications	SDC-CF10AG	Compact Flash Module	CF10AG07122-0000376	TWG-SDCCF10AG

Other EUT Details

The following EUT details should be noted: The EUT was tested in the transmit and non-transmit modes.

EUT Antenna (Intentional Radiators Only)

The EUT antenna is a _____.

The antenna is integral to the device.

The antenna connects to the EUT via a non-standard _____ antenna connector, thereby meeting the requirements of FCC 15.203.

EUT Enclosure

The EUT does not have an enclosure as it is designed to be installed within the enclosure of a host computer or system.

Modification History

Mod. #	Test	Date	Modification
1			
2			
3			

Modifications applied are assumed to be used on subsequent tests unless otherwise stated as a further modification.



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Test Configuration #1

The following information was collected during the test session(s).

Local Support Equipment

Manufacturer	Model	Description	Serial Number	FCC ID
Hp	iPAQ	PDA	00039-146-717-467	-
Sycard	CFextend160B	Compact Flash Extender	C169B-6283	-

Remote Support Equipment

Manufacturer	Model	Description	Serial Number	FCC ID
Cisco	1130AG	WiFi Wireless AP	FTX1040T17J	-

Cabling and Ports

Port	Connected To	Cable(s)		
		Description	Shielded or Unshielded	Length(m)
Compact Flash	Compact Flash Extender	Compact Flash Extender	Unshielded	-



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EUT Operation During Emissions Tests

During emissions testing the EUT will be exercised by pinging to a communication link (AP). Normal operation is indicated by the host system and is monitored by the host system.

EUT Operation During Immunity Tests

During immunity testing the EUT will be exercised by pinging to a communication link (AP). Normal operation is indicated by the host system and is monitored by the host system.

Performance Criteria for Immunity Tests

Criterion A:

During and after testing the EUT shall continue to transmit and link to the remote AP. A degradation of performance is allowed providing no change of the actual mode of operation (e.g. unintended transmission) or or stored data is allowed. After the test, the apparatus shall continue to operate as intended.



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Immunity Standard(s): EN301 489-1 V1.6.1 (2005-09)	Environment: Wireless

Run #1: Radiated Immunity, 80 - 2500 MHz (EN61000-4-3)
Receive Mode

Frequency:	80 - 1000 MHz
Step Size:	1 %
Dwell time:	2874 ms
Field Uniformity:	1.5m x 1.5m
Test Distance:	3

Modulation Details	
Modulating Frequency:	1 kHz
Modulation:	AM
Depth / Deviation:	80%

Frequency Range (MHz)	Level V/m	Front		Left Side		Rear		Right		Top		Bottom	
		Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.
80 - 1000	3	X	X	X	X	X	X	X	X	N/A	N/A	N/A	N/A
1000 - 2500	3	X	X	X	X	X	X	X	X	N/A	N/A	N/A	N/A

Test files used for this run:
 The following calibration files from O:\EMC Stuff\Radiated Immunity Cal\CH5\CH5, 0080-1000 MHz, Nov 2006\03 Vm, 80-1000 MHz\ were used:
 1.55m High - centerline, 3m from tip 80 MHz - 1000 MHz H 3Vm.crf
 1.55m High - centerline, 3m from tip 80 MHz - 1000 MHz V 3Vm.crf

The following calibration files from O:\EMC Stuff\Radiated Immunity Cal\Chamber #5\CH5, 1000-2500 MHz, December 2006\03 Vm, 1000-2700 MHz\ were used:
 Tip 2m from uniform field, boom arm 1.55m high, 1-2GHz H 3Vm.crf
 Tip 2m from uniform field, boom arm 1.55m high, 1-2GHz V 3Vm.crf
 Tip 2m from uniform field, boom arm 1.55m high, 2-2.5GHz H 3Vm.crf
 Tip 2m from uniform field, boom arm 1.55m high, 2-2.5GHz V 3Vm.crf

Note: An "X" indicates that the unit continued to operate as intended. Occasionally signal's were observed on the analyzer. Turned off the RF and the signals were still observed every couple of minutes. These signals did not seem to be transmit signals as they were occasionally seen and when the problem frequencies were test again signals were not repeatable therefore the EUT passes.

Note : Tested frequencies detailed in EN 55024 in accordance with Annex A of the standard.



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**Run #2: Radiated Immunity, 80 - 2500 MHz (EN61000-4-3)
Transmit Mode**

Frequency:	80 - 1000 MHz
Step Size:	1 %
Dwell time:	2874 ms
Field Uniformity:	1.5m x 1.5m
Test Distance:	3

Modulation Details	
Modulating Frequency:	1 kHz
Modulation:	AM
Depth / Deviation:	80%

Frequency Range (MHz)	Level V/m	Front		Left Side		Rear		Right		Top		Bottom	
		Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	Horiz.
80 - 1000	3	X	X	X	X	X	X	X	X	N/A	N/A	N/A	N/A
1000 - 2500	3	X	X	X	X	X	X	X	X	N/A	N/A	N/A	N/A

Test files used for this run:

The following calibration files from O:\EMC Stuff\Radiated Immunity Cal\CH5\CH5, 0080-1000 MHz, Nov 2006\03 Vm, 80-1000 MHz\ were used:

- 1.55m High - centerline, 3m from tip 80 MHz - 1000 MHz H 3Vm.crf
- 1.55m High - centerline, 3m from tip 80 MHz - 1000 MHz V 3Vm.crf

The following calibration files from O:\EMC Stuff\Radiated Immunity Cal\Chamber #5\CH5, 1000-2500 MHz, December 2006\03 Vm, 1000-2700 MHz\ were used:

- Tip 2m from uniform field, boom arm 1.55m high, 1-2GHz H 3Vm.crf
- Tip 2m from uniform field, boom arm 1.55m high, 1-2GHz V 3Vm.crf
- Tip 2m from uniform field, boom arm 1.55m high, 2-2.5GHz H 3Vm.crf
- Tip 2m from uniform field, boom arm 1.55m high, 2-2.5GHz V 3Vm.crf

Note:	An "X" indicates that the unit continued to operate as intended. The EUT continued to transmit to a communication link(Access Point) and the ping tests continued before, after and during testing.
Note :	Tested frequencies detailed in EN 55024 in accordance with Annex A of the standard.