Hardware Integration Guide

SDC-CF22G

version 1.1

Revision History

Version	Revision Date	Change Description
1.0	3/16/2010	Transitioned Application Notes documentation to Hardware Integration Guide format.
1.1	7/14/2010	Updated Pin table format. Edited text.

Contents

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Scope

This document describes key hardware aspects of the Summit SDC-CF22G 802.11b/g Compact Flash Radio Card. This document is intended to assist device manufacturers and related parties with the integration of this radio into their host devices. Data in this document is drawn from a number of sources and includes information found in the Broadcom BCM4318E data sheet issued in July of 2006.

The information in this document is subject to change without notice. Please contact Summit or visit the Summit website at www.summitdatacom.com to obtain the most recent version of this document.
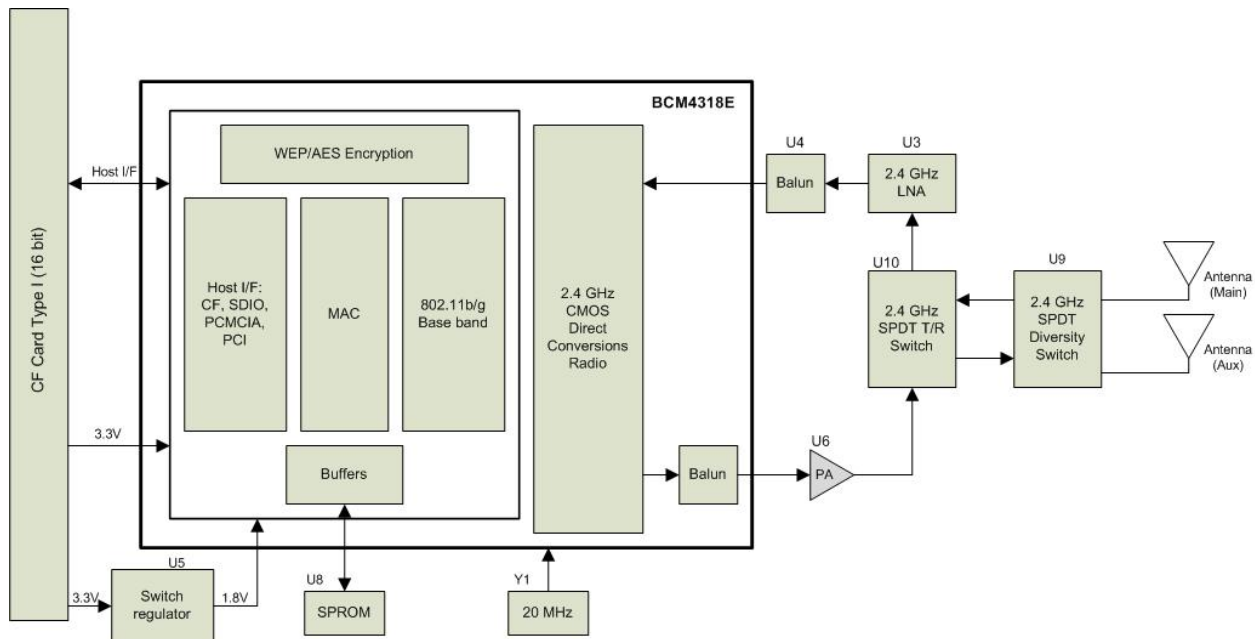
Operational Description

This device is an SDC-CF22G 802.11b/g Compact Flash Card with Integrated Antenna, which operates in the 2.4 GHz portion of the radio frequency spectrum. The device is compliant with IEEE 802.11b and 802.11g standards using Direct Sequence Spread Spectrum and Orthogonal Frequency Division Multiplexing. The device supports all 802.11b and 802.11g data rates and automatically adjusts data rates and operational modes based on various environmental factors.

The SDC-CF22G card is compliant with Compact Flash Type 1 mechanical specifications and interfaces to host devices via a 50-pin connector. The card uses the Broadcom BCM4318e chip and is an integrated device providing a media access controller (MAC), a physical layer controller (PHY or baseband processor), and a 2.4 GHz transceiver.

To maximize operational range, the SDC-CF22G card incorporates a 2.4 GHz power amplifier to increase transmit power and a 2.4 GHz low noise amplifier to improve receiver sensitivity. The frequency stability for 2.4 GHz (802.11b and 802.11g) operation is +/- 20 ppm. The SDC-CF22G card is powered by the host device into which it is installed and uses a DC-to-DC regulator. The SDC-CF22G card provides an integrated antenna that supports transmit and receive diversity.

The device is labeled with all applicable regulatory information in a manner that's compliant with all regulatory standards. Regulatory operational requirements are included with this document and may be incorporated into the operating manual of any device into which the SDC-CF22AG is installed. The SDC-22AG is designed for installation into mobile devices such as vehicle mount data terminals which typically operate at distances greater than 20 cm from the human body and portable devices such as handheld data terminals which typically operate at distances less than 20 cm from the human body. See "Documentation Requirements" for more information.

Block Diagram

Specifications

Feature	Description
System Interface	16-bit Compact Flash Type I with 50-pin connector
	Note: This card is not designed for operation in the CF slot on standard laptop and desktop PCs. For these devices, Summit suggests using the SDC-PC20G in the PC Card (PCMCIA) or CardBus slot found on most laptops and desktops.
Antenna	Diversity omnidirectional antenna with 0 dBi gain
Chip Set	Broadcom BCM4318E
Input Power Requirements	3.3 VDC +/- 10%
Current Consumption (At maximum transmit power setting)	Transmit: 440mA (1320mW)
	Receive: 180mA (594mW)
	Standby: 10mA (33mW)
Operating Temperature	-30° to 85°C (-22° to 185°F)
Operating Humidity	10 to 90% (non-condensing)
Storage Temperature	-40° to 80°C (-40° to 176°F)
Storage Humidity	95%
Maximum Electrostatic Discharge	4 kV
Length	67.4 mm (2.65 in.)

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Feature	Description
Width	43 mm (1.69 in.)
Thickness	Card body: 3.3 mm (0.13"); antenna: 7.42 mm (0.29")
Weight	21 g (0.7 oz.)
Mounting	50-pin connector
Wireless Media	Direct Sequence-Spread Spectrum (DSSS) Orthogonal Frequency Divisional Multiplexing (OFDM)
Media Access Protocol	Carrier sense multiple access with collision avoidance (CSMA/CA)
Network Architecture Types	Infrastructure and ad hoc
Network Standards	IEEE 802.11b, 802.11d, 802.11g, 802.11i
Data Rates Supported	802.11b (DSSS) 1, 2, 5.5, 11 Mbps 802.11g (OFDM) 6, 9, 12, 18, 24, 36, 48, 54 Mbps
Modulation	BPSK @ 1, 6, and 9 Mbps QPSK @ 2, 12, and 18 Mbps CCK @ 5.5 and 11 Mbps 16-QAM @ 24 and 36 Mbps 64-QAM @ 48 and 54 Mbps
Regulatory Domain Support	FCC (Americas, parts of Asia, and Middle East) ETSI (Europe, Middle East, Africa, and parts of Asia) TELEC (Japan) KCC (Korea)
2.4 GHz Frequency Bands	**ETSI** 2.4 GHz to 2.483 GHz **FCC** 2.4 GHz to 2.473 GHz **TELEC** 2.4 GHz to 2.495 GHz **KCC** 2.4 GHz to 2.483 GHz
2.4 GHz Operating Channels	ETSI: 13 (3 non-overlapping) FCC: 11 (3 non-overlapping) TELEC: 14 (4 non-overlapping) KCC: 13 (3 non-overlapping)

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SUMMIT
DATA COMMUNICATIONS

Feature	Description
Transmit Power Settings ***Note:*** *Maximum transmit power varies according to individual country regulations. All values nominal, +/-2 dBm*	**802.11b** 19 dBm (80 mW) 17 dBm (50 mW) 15 dBm (30 mW) 10 dBm (10 mW) 0 dBm (1 mW) **802.11g** 15 dBm (30 mW) 10 dBm (10 mW) 0 dBm (1 mW)
Typical Receiver Sensitivity	1 Mbps: -96 dBm 2 Mbps: -95 dBm 5.5 Mbps: -94 dBm 6 Mbps: -94 dBm 9 Mbps: -91 dBm 11 Mbps: -90 dBm 12 Mbps: -88 dBm 18 Mbps: -86 dBm 24 Mbps: -83 dBm 36 Mbps: -78 dBm 48 Mbps: -76 dBm 54 Mbps: -75 dBm (PER <= 10%)
Delay Spread	600 ns @ 1 Mbps 500 ns @ 2 Mbps 400 ns @ 5.5 Mbps 400 ns @ 6 Mbps 400 ns @ 9 Mbps 200 ns @ 11 Mbps 350 ns @ 12 Mbps 350 ns @ 18 Mbps 250 ns @ 24 Mbps 250 ns @ 36 Mbps 150 ns @ 48 Mbps 150 ns @ 54 Mbps
Operating Systems Supported	Windows Mobile 6.5, 6.1, 6, 5.0; Pocket PC 2003 Windows Embedded CE 6.0 (R3, R2, R1), 5.0, 4.2 Windows XP Professional and Embedded

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Feature	Description
Security	Standards ▪ Wireless Equivalent Privacy (WEP) ▪ Wi-Fi Protected Access (WPA) ▪ IEEE 802.11i (WPA2) Encryption ▪ Wireless Equivalent Privacy (WEP, RC4 Algorithm) ▪ Temporal Key Integrity Protocol (TKIP, RC4 Algorithm) ▪ Advanced Encryption Standard (AES, Rijndael Algorithm) Encryption Key Provisioning ▪ Static (40-bit and 128-bit lengths) ▪ Pre-Shared (PSK) ▪ Dynamic 802.1X Extensible Authentication Protocol Types ▪ EAP-FAST ▪ EAP-TLS ▪ EAP-TTLS ▪ PEAP-GTC ▪ PEAP-MSCHAPv2 ▪ PEAP-TLS ▪ LEAP
Compliance Note: For additional information, refer to the Certifications section of the Summit website: http://www.summitdatacom.com/certifications.htm	ETSI Regulatory Domain EN 300 328 EN 301 489-1 EN 301 489-17 EN 60950-1 EU 2002/95/EC (RoHS) FCC Regulatory Domain Part 15.247 Subpart C ▪ Grant ▪ Test Report ▪ Grant (Class II Permissive Change to current grant) Industry Canada RSS-210 and RSS-Gen Issue 2 ▪ Grant (Using 0dBi PCB omnidirectional and 2dBi dipole antennas) ▪ Grant (Using 2dBi PCB omnidirectional and 5dBi dipole antennas) TELEC Regulatory Domain Article 2 Item 19, Category WW (2.4GHz Channels 1-13) ▪ Certification ▪ Test Report Article 2 Item 19-2, Category GZ (2.4GHz Channel 14) ▪ Certification ▪ Test Report

Feature	Description
Certifications	Wi-Fi Alliance 802.11b, 802.11g WPA Enterprise WPA2 Enterprise Cisco Compatible Extensions (Version 4)
Warranty	Limited Lifetime
All specifications are subject to change without notice	

Recommended Operating Conditions

Parameter	Min.	Typical	Max.	Units	Comments
Supply Voltage					
▪ VDDIO, VDDBUS ▪ VDDCORE, PLLVDD, AVDD	3.0 1.71	3.3 1.8	3.6 1.89	V V	
Logic Inputs					
▪ V_{INH}, Input High Voltage ▪ V_{INL}, Input Low Voltage	2.0 –	– –	– 0.8	V V	
Logic Outputs					
▪ V_{OH}, Output High Voltage ▪ V_{OL}, Output Low Voltage	2.4 –	– –	– 0.4	V V	Current is determined by the specific pad.

Pin Definitions

Pin Number	Pin Name	I/O	Power Supply	Description
1	GND			Ground
2	Slot0_data3			Data bus, bit 3
3	Slot0_data4			Data bus, bit 4
4	Slot0_data5			Data bus, bit 5
5	Slot0_data6			Data bus, bit 6
6	Slot0_data7			Data bus, bit 7
7	Slot0_nCE1			Enable for even-numbered address bytes. Active low.
8	Slot0_addr10			Address bus, bit 10
9	Slot0_nOE			Memory access output enable. Active low.

Pin Number	Pin Name	I/O	Power Supply	Description
10	Slot0_addr9			Address bus, bit 9
11	Slot0_addr8			Address bus, bit 8
12	Slot0_addr7			Address bus, bit 7
13	VCC3_3			3.3V Module Power
14	Slot0_addr6			Address bus, bit 6
15	Slot0_addr5			Address bus, bit 5
16	Slot0_addr4			Address bus, bit 4
17	Slot0_addr3			Address bus, bit 3
18	Slot0_addr2			Address bus, bit 2
19	Slot0_addr1			Address bus, bit 1
20	Slot0_addr0			Address bus, bit 0
21	Slot0_data0			Data bus, bit 0
22	Slot0_data1			Data bus, bit 1
23	Rfu_data2			Data bus, bit 2
24	Slot0_nIOIS16			Current access is 16 bit. Active low.
25	Slot0_nCD2			Card detect. Tied to ground in module.
26		N/C		No Connect
27	Slot0_data11			Data bus, bit 11
28	Slot0_data12			Data bus, bit 12
29	Slot0_data13			Data bus, bit 13
30	Rfu_data14			Data bus, bit 14
31	Slot0_data15			Data bus, bit 15
32	Slot0_nCE1			Enable for even-numbered address bytes. Active low.
33	GND			Ground
34	Slot0_nIOR			IO access read enable. Active low.
35	Slot0_nIOW			IO access write enable. Active low.
36	Slot0_nWE			Memory access write enable. Active low.
37	Slot0_nIREQ			Interrupt request. Active low.
38	VCC3_3			3.3V Module Power

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Pin Number	Pin Name	I/O	Power Supply	Description
39	BT_ACTIVE			Input from BT device. When high, indicates that Bluetooth is transmitting or receiving. The Summit radio does not transmit when BT_ACTIVE is high. Tie to GND when not used
40	Slot0_nVS2			Not Used. Leave Open (Float)
41	Slot0_RESET			Card reset. Active high.
42	Slot0_nWAIT			Current access is extended. Active low.
43	INPACK			This signal must be inactive until the card is configured.
44	Slot0_nREQ			Interrupt request. Active low.
45	WLAN_ACTIVE			Output to BT device. When high, indicates that WLAN is transmitting or receiving. Do not connect when not used
46	Slot0_nSTSCHG			Module status change. Active low.
47	Slot0_data8			Data bus, bit 8
48	Slot0_data9			Data bus, bit 9
49	Slot0_data10			Data bus, bit 10
50	GND			Ground

Mechanical Specifications

Connector Overview

CF22G connector: 50-pin connector
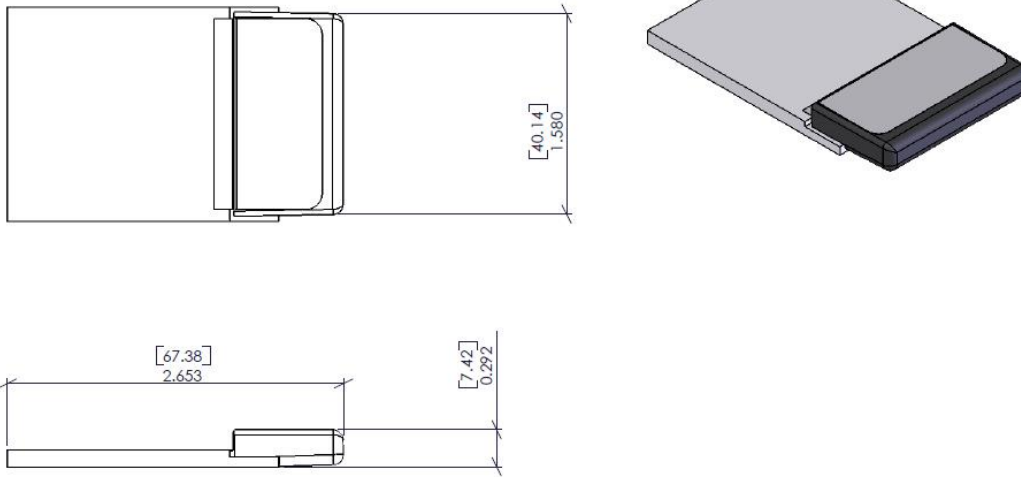
RF Layout Design Guidelines

The following is a list of RF layout design guidelines and recommendation when installing a Summit radio into your device.

- Do not run antenna cables directly above or directly below the radio.
- Do not place any parts or run any high speed digital lines below the radio.
- If there are other radios or transmitters located on the device (such as a Bluetooth radio), place the devices as far apart from each other as possible.
- Ensure that there is the maximum allowable spacing separating the antenna connectors on the Summit radio from the antenna. In addition, do not place antennas directly above or directly below the radio.
- Summit recommends the use of a double shielded cable for the connection between the radio and the antenna elements.
- Summit has provided three plated mounting holes that can be used for grounding. When additional ground plane is required, you may use some or all of these grounded mounting holes.

Mounting

50-pin connector

Antenna Specifications

The SDC-CF22G incorporates an integrated omnidirectional antenna that supports transmit and receive diversity:

Type: Dipole

Maximum 2.4 GHz Gain: 0 dBi

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Antenna Patterns

Typical Radiation Patterns

XY cut @2.45GHz
— Vertical
...... Horizontal
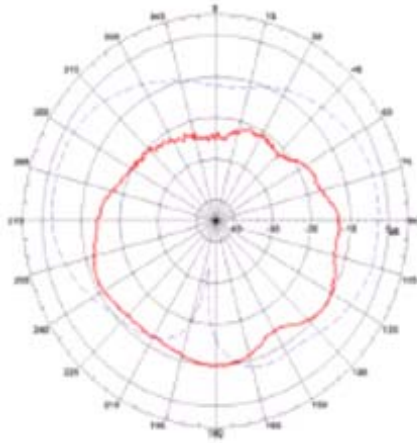
XZ cut @2.45GHz
— Vertical
...... Horizontal
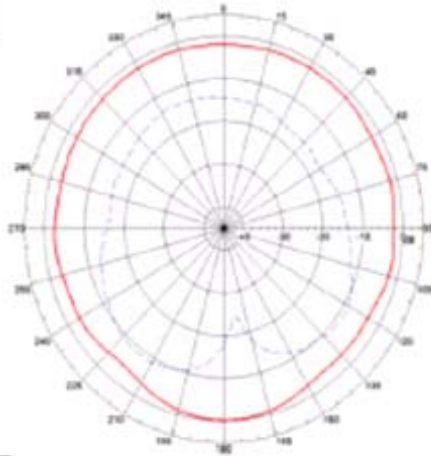
YZ cut @2.45GHz
— Vertical
...... Horizontal
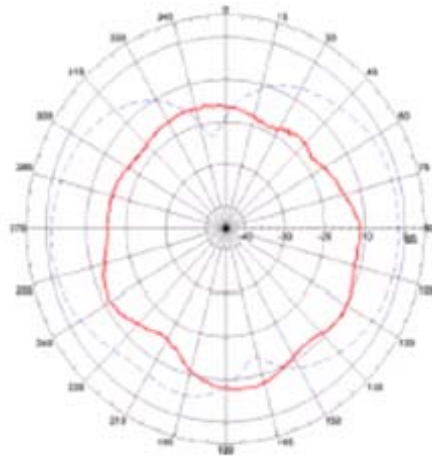
Documentation Requirements

In order to maintain regulatory compliance, when integrating the SDC-CF22AG into a host device and leveraging Summit's grants and certifications, it is necessary to meet the documentation requirements set forth by the applicable regulatory agencies. The following sections (FCC, Industry Canada, and European Union) outline the information that must be included in the user's guide for the host devices into which the SDC-CF22AG is integrated.

FCC

User's Guide Requirements

As outlined in the Operational Description, the SDC-CF22AG complies with FCC Part 15 Rules for a Limited Modular Approval. To leverage Summit's grant, the two conditions below must be met for the host device into which the SDC-CF22AG is integrated:

1. The antenna is installed with 20 cm maintained between the antenna and users.
2. The transmitter module is not co-located with any other transmitter or antenna that is capable of simultaneous operation.

As long as the two conditions above are met, further *transmitter* testing is typically not required. However, the OEM integrator is still responsible for testing its end-product for any additional compliance requirements required with this module installed, such as (but not limited to) digital device emissions and PC peripheral requirements.

IMPORTANT!	In the event that the two conditions above **cannot be met** (for example certain device configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID **cannot** be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

When using Summit's FCC grant for the SDC-CF22AG, the integrator must include specific information in the user's guide for the device into which the SDC-CF22AG is integrated. The integrator must not provide information to the end user regarding how to install or remove this RF module in the user's manual of the device into which the SDC-CF22AG is integrated. The following FCC statements must be added in their entirety and without modification into a prominent place in the user's guide for the device into which the SDC-CF22AG is integrated:

"**IMPORTANT NOTE:** To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

1. Reorient or relocate the receiving antenna.

2. Increase the separation between the equipment and receiver.

3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

4. Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE: FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Industry Canada

User's Guide Requirements

As outlined in the Operational Description, the SDC-CF22AG complies with Industry Canada (IC) rules for a Limited Modular Approval. To leverage Summit's grant, the two conditions below must be met for the host device into which the SDC-CF22AG is integrated:

1. The antenna is installed with 20 cm maintained between the antenna and users.

2. The transmitter module is not co-located with any other transmitter or antenna that is capable of simultaneous operation.

As long as the two conditions above are met, further *transmitter* testing is typically not required. However, the OEM integrator is still responsible for testing its end-product for any additional

compliance requirements required with this module installed, such as (but not limited to) digital device emissions and PC peripheral requirements.

IMPORTANT!	In the event that the two conditions above **cannot be met** (for example certain device configurations or co-location with another transmitter), then the IC authorization is no longer considered valid and the IC ID **cannot** be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate IC authorization.

When using Summit's IC grant for the SDC-CF22AG, the integrator must include specific information in the user's guide for the device into which the SDC-CF22AG is integrated. The integrator must not provide information to the end user regarding how to install or remove this RF module in the user's manual of the device into which the SDC-CF22AG is integrated. . In addition to the required FCC statements outlined above, the following IC statements must be added in their entirety and without modification into a prominent place in the user's guide for the device into which the SDC-CF22AG is integrated:

> To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

European Union

User's Guide Requirements

The integrator must include specific information in the user's guide for the device into which the SDC-CF22AG is integrated. In addition to the required FCC and IC statements outlined above, the following R&TTE statements must be added in their entirety and without modification into a prominent place in the user's guide for the device into which the SDC-CF22AG is integrated:

> This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

- **EN60950-1:2001 A11:2004**

  Safety of Information Technology Equipment

- **EN 300 328 V1.7.1: (2006-10)**

  Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

- **EN 301 489-1 V1.6.1: (2005-09)**

  Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

- **EN 301 489-17 V1.2.1 (2002-08)**

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

- **EN 301 893**

Electromagnetic compatibility and Radio spectrum Matters (ERM); Broadband Radio Access Networks (BRAN); Specific conditions for 5 GHz high performance RLAN equipment

- **EU 2002/95/EC (RoHS)**

Declaration of Compliance – EU Directive 2003/95/EC; Reduction of Hazardous Substances (RoHS)

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 – 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.

Česky [Czech]	*[Jméno výrobce]* tímto prohlašuje, že tento *[typ zařízení]* je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
Dansk [Danish]	Undertegnede *[fabrikantens navn]* erklærer herved, at følgende udstyr *[udstyrets typebetegnelse]* overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
Deutsch [German]	Hiermit erklärt *[Name des Herstellers]*, dass sich das Gerät *[Gerätetyp]* in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
Eesti [Estonian]	Käesolevaga kinnitab *[tootja nimi = name of manufacturer]* seadme *[seadme tüüp = type of equipment]* vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
English	Hereby, *[name of manufacturer]*, declares that this *[type of equipment]* is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español [Spanish]	Por medio de la presente *[nombre del fabricante]* declara que el *[clase de equipo]* cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ *[name of manufacturer]* ΔΗΛΩΝΕΙ ΟΤΙ *[type of equipment]* ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.

fr Français [French]	Par la présente *[nom du fabricant]* déclare que l'appareil *[type d'appareil]* est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
it Italiano [Italian]	Con la presente *[nome del costruttore]* dichiara che questo *[tipo di apparecchio]* è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo *[name of manufacturer / izgatavotāja nosaukums]* deklarē, ka *[type of equipment / iekārtas tips]* atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo *[manufacturer name]* deklaruoja, kad šis *[equipment type]* atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Nederlands [Dutch]	Hierbij verklaart *[naam van de fabrikant]* dat het toestel *[type van toestel]* in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
mt Malti [Maltese]	Hawnhekk, *[isem tal-manifattur]*, jiddikjara li dan *[il-mudel tal-prodott]* jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
hu Magyar [Hungarian]	Alulírott, *[gyártó neve]* nyilatkozom, hogy a *[... típus]* megfelel a vonatkozó alapvetõ követelményeknek és az 1999/5/EC irányelv egyéb elõírásainak.
Polski [Polish]	Niniejszym *[nazwa producenta]* oświadcza, że *[nazwa wyrobu]* jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
Português [Portuguese]	*[Nome do fabricante]* declara que este *[tipo de equipamento]* está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Slovensko [Slovenian]	*[Ime proizvajalca]* izjavlja, da je ta *[tip opreme]* v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	*[Meno výrobcu]* týmto vyhlasuje, že *[typ zariadenia]* spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
fi Suomi [Finnish]	*[Valmistaja = manufacturer]* vakuuttaa täten että *[type of equipment = laitteen tyyppimerkintä]* tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
sv Svenska [Swedish]	Härmed intygar *[företag]* att denna *[utrustningstyp]* står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

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