Wireless Remote Control II

OE

Integration Maual

Wireless Module

S5H-WRCII

Last Change: 2009-05-18

D. Sierk

H IM CV ME R&D 31

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History

Document History

Version	Date of Issue	Author	Change and Reason of Change / Change Request/CHARM
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History of released Versions

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00	SAP/ EDM	SAP/EDM

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SIEMENS Healthcare Sector

D. Sierk, H IM CV ME R&D 31

1 Purpose of the document

The purpose of this document is to describe the integration of the wireless module *S5H-WRCII* into final *Siemens Healthcare* products.

This module is based on Mitsumi WML-C46NHN Bluetooth Module by a change ID Identification procedure according to §2.933.

This document shows the implementation of the mentioned module with the tested antennas.

2 General

The Bluetooth Module *S5H-WRCII* is based on the Mitsumi Module WML-C46NHN with the following specifications:

Supply voltage: 2,8V -3,4V
Carrier Frequency: 2402MHz – 2480MHZ
Modulation Method: GFSK, **note 1**
Data Rate: max 1Mbit/s, **note1**
Hopping scheme: FHSS, F = 2402MHz + k | k=0 to 78
RF impedance: 50 Ohms
Output power: 0dBm (1mW)

Note 1: Any other modulation method shall not be used with the module *S5H-WRCII*. Therefore the maximum data rate is limited to 1Mbit/s.

3 Antenna notes

Additional to the listed antennas by the origin grantee *Mitsumi* two types of antennas were tested:

Manufacturer	Product description	Gain (dBi)
gigaAnt	Rufa 2.4 GHz SMD Antenna	4,1
Siemens AG, Healthcare Sector	Patch antenna	3,6

Table 1 Tested antennas

All antenna connectors are internally in the final product. There is no external antenna connector provided.

The manufacturer Siemens AG, Healthcare Sector integrates only the above listed antennas for the final product.

4 Integration

This module will be only integrated into Siemens Healthcare medical devices. It is not intended to resell the module with the *S5H-xxxx* grant.

Siemens AG, Healthcare Sector is responsible to provide all relevant approvals (FCC, EMC, electrical and mechanical safety) for the final product.

5 Identification / Label
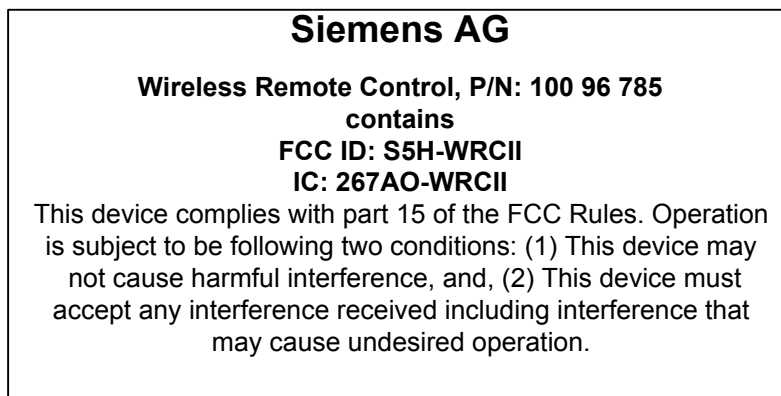
A: Labeling of the module:

> The module is tagged by label as follow:


```
Siemens AG
Wireless Remote Control II
FCC ID: S5H-WRCII
IC: 267 A0-WRCII
204WWxxxxxxxx
```
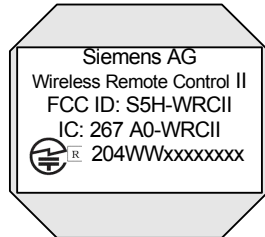
B: Labeling of the final product

> The device is labeled in accordance to the FCC rules for modular approvals.

> e.g. The device is labeled as follow:

Siemens AG

Wireless Remote Control, P/N: 100 96 785
contains
FCC ID: S5H-WRCII
IC: 267AO-WRCII
This device complies with part 15 of the FCC Rules. Operation
is subject to be 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.

This label will be placed on the final product clearly visible to all persons who handle this product. The dimensions of the label are dependent on the size of the product, but in any case clearly visible to all involved persons.

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