



## COMPANY CONFIDENTIAL

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### Customer Name: SONY(US)

<b>Engineering Requirement Specification</b>
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**IEEE 802.11b/g/n WLAN and Bluetooth v3.0+HS  
Combo Card**

(Project Name)	Marvell 88W8787 WLAN/BT Combo Card
(Foxconn Part No.)	J20H045.00
(Customer Part No.)	NA

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**0. Revision History**

Date	Document revision	Product revision	Change Description
2011/03/25	00	00S0	1. Initial release
2011/07/01	01	01S1	1. Change dual band to single band
2011/09/08	02	02S2	1. Change single side to double side

## 1. Introduction

Project Name: 88W8787 WiFi(11b/g/n)/BT combo  
Project Number: J20H045.00

This documentation describes the engineering requirements specification of 88W8787 (WLAN+BT) combo Card. It is a confidential document of Foxconn.

### 1.1 Scope

The J20H045.00 combo design is based on the Marvell 8787 single-chip solution. It's operating in 2.4GHz, compatible with the IEEE 802.11b/g/n standard and Bluetooth BTv3.0+HS standard. The 802.11n data rate provides for MCS0 to MCS7 (HT20,HT40). The 802.11g data rate provides for 54, 48, 36, 24, 18, 12, 9, 6Mbps, and 802.11b data rate provides for 11, 5.5, 2, 1Mbps. In addition, it's also compatible with BTv2.1+EDR. This combo card has implemented some efficient mechanisms in its software and hardware to maximize the performance of WLAN and BT.

### 1.2 Feature

- Marvell 88W8787 combo card with B2B connector
- Compatible with IEEE 802.11b/g/n standard
- Compatible with BT v3.0 + HS standard, also compatible with BTv2.1+EDR
- Three U.FL RF connector (two for WiFi, one for BT)
- Support 11n HT20/HT40 mode
- WLAN/BT data transactions are handled over SDIO interface
- Support Wireless multimedia enhancements quality of service support (QoS)
- Support WEP,TKIP, and AES hardware encryption
- ROHS compliance

**2. Product Functional Specification (draft)**

<b>WLAN</b>	Standard	IEEE802.11n/g/b;			
	Data Rate	802.11b: 11, 5.5, 2, 1 Mbps; 802.11 g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n: HT20 mode: 72.2, 65, 57.8, 43.3, 28.9, 21.7, 14.4, 7.2Mbps HT40 mode: 150, 135, 120, 90, 60, 45, 30, 15Mbps			
	Modulation Techniques	<b>802.11b</b> : CCK, DQPSK, DBPSK <b>802.11 g</b> : 64QAM, 16QAM, QPSK, BPSK <b>802.11n</b> : MCS0, MCS4, MCS5, MCS6, MCS7 in HT20/HT40 Modes			
	Frequency Range	2.400~2.484GHz			
	Media Access Control	CSMA/CA with ACK			
	Transmit Output Power (Tolerance: +/-1.5dB)	<b>11b 11Mbps</b> 17 dBm	<b>11g 54Mbps</b> 15dBm	<b>11n MCS7</b> 14 dBm(HT20) 14 dBm(HT40)	
	Receiver Sensitivity	<b>11b 11Mbps</b> -87dBm @PER<8%	<b>11g 54Mbps</b> -71dBm @PER<10%	<b>11 n</b> MCS 7_HT20: -68dBm@PER<10% MCS 7_HT40: -65dBm@PER<10%	
<b>BT</b>	Radio Modulation Technology	FHSS			
	Operating Frequency	2.402GHz ~ 2.480GHz			
	Channel Numbers	79 channels with 1MHz BW			
	Transmitter Output Power	+1.69dBm MAX.			
	Maximum Receiver Signal	-20dBm			
	Initial Carrier Freq. Tolerance	≤ ± 75 kHz			
	Carrier Drift – Drift Rate	≤± 20 kHz/50uS			
	Carrier Drift – Drift (DH5)	≤± 40 kHz			
	Multi-slot Sensitivity	-70dBm @BER < 0.1%			
	Modulation Index – Δf1 avg.	140 ≤ Δf1 avg. ≤ 175 (Unit : kHz )			
	Modulation Index – Δf2 max	Δf2 max ≥ 115 (Unit : kHz )			
	Modulation Index – Δf2 avg/Δf1 avg.	≥ 0.80 (80%)			
	<b>Operating Voltage</b>	3.3V+/-10%			
<b>Operating Temperature</b>	0°C to +70°C				
<b>Host Interface</b>	SDIO for WLAN and BT				
<b>RF connector type</b>	U.FL type Three antenna connectors (two for WiFi diversity , one for BT)				

### 3. Product Requirements

#### 3.1 Hardware Requirements

- **WLAN Requirements**

Marvell's 88W8787 is the IC of choice for the WLAN module with the following basic features enabled:

- Single band: 2.4GHz
- 802.11e (Quality of Service)
- 802.11i (Enhanced Security)
- High Throughput 20MHz channel
- High Throughput 40MHz channel
- Mixed Format
- Greenfield Format
- Short Guard Interval
- STA and AP concurrency

- **Bluetooth Requirements**

Marvell's 88W8787 as the IC of choice for the Bluetooth module with the following features enabled:

- Bluetooth 2.1 + EDR
- Bluetooth 3.0 with Unicast Connectionless Data (UCD)
- All Bluetooth-Host transactions will be done via the SDIO interface. In other words, there will be no need to use the UART, I2C, I2S, or PCM interfaces.
- The following profiles are anticipated for Bluetooth.
  - ✓ Human Interface Device (HID)
  - ✓ Headset Profile (HSP)
  - ✓ Hands-Free Profile (HFP)
  - ✓ Audio/Video Remote Control Profile (AVRCP)
  - ✓ Advanced Audio Distribution Profile (A2DP)

- **Host Interface Connector**

The plan is to use a board-to-board connector with a 3.0mm stacking height from the bottom of the PWB module to the top of the main PWB.

B2B Connector Vendor: Foxconn

Wireless module side: P/N: QT510206-1101R-7H, 20pin, 0.5mmpitch.

System side: P/N: QT500206-1101R-8H

The requirement is to use 20 pins for the Host-Module interface. Here is an example of the pin-out signals.

Table 1: Host-Module Connector Pin-out Signals

GND	1	20	PDn
SD_CMD	2	19	RESETn
GND	3	18	VIO
SD_D1	4	17	GND
SD_D0	5	16	SLEEP_CLK (32.768kHz)
SD_D2	6	15	GND
SD_D3	7	14	HOST_WAKEUP#
GND	8	13	GND
3.3V	9	12	SD_CLK
3.3V	10	11	GND

### 3.2 Hardware Architecture

The module design based on the MARVELL 88W8787 single chip integrated WiFi and BT MAC/Baseband/RF Which implements IEEE802.11b/g/n and BTv.30+HS

MARVELL 88W8787 is a highly integrated, low-cost, low-power IEEE802.11 b/g /n MAC /Baseband / RF WLAN and Bluetooth Baseband/RF. The SIP Module apply to WLAN /Bluetooth cellular handsets ,WLAN/Bluetooth headsets, portable audio/video devices and accessories , gaming platforms, and WLAN/Bluetooth enabled digital still cameras and printers.

The single chip MARVELL 88W8787 interfaces directly with both the RF and digital signals. It transmits and receivers RF signals at 2.4GHz to and from the antenna and digital signals to and from the host interface. A power management (PMU) is placed in the off Board to provide power for all components in the module and also can save precious board space.

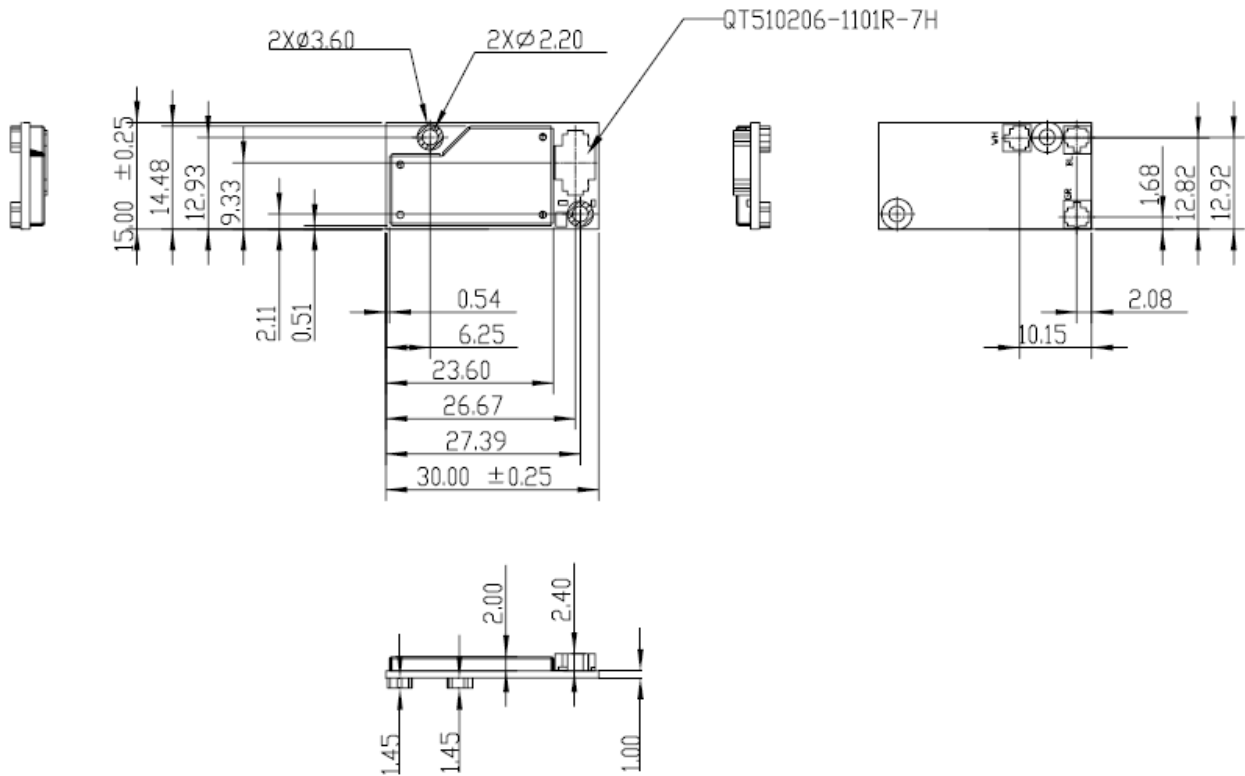
To maximize performance between WLAN and Bluetooth, three antennas will be required. Two antennas are dedicated to the WLAN interface to provide diversity. The third antenna will be dedicated for Bluetooth.

### 3.3 Mechanical outline Drawing

The WiFi module needs to be as small as possible. The target size of the module is 30mm x 15mm. We also want the height of the module to be as low as possible.

**PCB: FR4, 4layers, single side design**

**Module size (WxL): 15mm x30mm.**



### 3.4 Software Requirements

All software components and documentation, including user interface and help files are English version. For others language support need to be decided by mutual discussion.

#### 3.4.1 Software setup

1. The whole software must be able to be installed by Device Manager or a proprietary installer. Consequently, the software package must be either of the followings:
  - A bunch of files, consisting of an .inf file or more and some other files that are associated to the .inf file(s), so that Device Manager installs the whole software. For avoidance of question, the .inf file covers up to application if attached.
  - An installer for installing the whole software. For avoidance of question, the installer covers down to .inf file.
2. If installer or uninstaller is provided, it must be able to be run from command line and must have silent mode option. For avoidance of question, this is not to require eliminating normal (interactive) mode.
3. Setup should have ability to detect the presence of the preloaded files



### **3.4.2 Operating System Support**

The driver must support the following Operating Systems at product introduction: Linux, Microsoft Windows XP, Vista and Win7 drivers.

### **3.4.3 Software Functions**

The software must support the following functions:

- Auto scan to find AP nearby and show signal strength for each channel.
- Support WPA, WPA-PSK, WPA2, WPA2-PSK, WEP 64bit & 128bit, IEEE 802.11x, IEEE 802.11i
- Easily use software to upgrade from BTv2.1+EDR to BTv3.0 + HS

## **4. Compatibility and Certification Requirements**

The 802.11b/g/n module shall pass the standard test plan, which includes hardware compatibility and reliability, and software compatibility test.

### **● FCC Compliance**

One of the main reasons for considering a PWB module is that customer prefers to have the ODM supplier perform FCC Part 15B and 15C (15.247) for 2.4GHz. The module is being considered for multiple products. The customer is responsible for FCC Part 15B product compliance testing.

### **● Wi-Fi Certification**

It is understood that Wi-Fi Certification is a system responsibility, however, the customer would really like to have the ODM supplier consider performing this service, or at the very least aid with testing.

## **5. Product Quality**

The product quality must be followed-up by Foxconn factory quality control system.

## **6. Environmental Requirements**

### **6.1 Temperature**

#### **6.1.1 Operating Temperature Conditions**

The product shall be capable of continuous reliable operation when operating in ambient temperature is 0°C to +70°C.

#### **6.1.2 Non-Operating Temperature Conditions**

Neither subassemblies shall be damaged nor shall the operational performance be degraded when restored to the operating temperature when exposed to storage temperature in the range of -10°C to +85°C.

### **6.2 Humidity**

#### **6.2.1 Operating Humidity Conditions**

The product shall be capable of continuous reliable operation when subjected to relative humidity in the range of 5% and 95% non-condensing.



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### **6.2.2 Non-Operating Humidity conditions**

The product shall not be damaged nor shall the performance be degraded after exposure to relative humidity ranging from 5% to 95% non-condensing.

## FCC Notice:

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.

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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 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 transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### 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.

### This device is intended only for OEM integrators under the following conditions:

- 1) The antenna must be installed such that 20 cm is maintained between the antenna and users, and
- 2) The transmitter module may not be co-located with any other transmitter or antenna.

As long as 2 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed

**IMPORTANT NOTE:** In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not 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.

### End Product Labeling

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: "Contains FCC ID: MCLJ20H045". The grantee's FCC ID can be used only when all FCC compliance requirements are met.

### Manual Information To the End User

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as show in this manual.

## Canada Notice

This device complies with RSS-210 of the Industry Canada 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.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

### **Radiation Exposure Statement:**

This equipment complies with IC 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.

### **Déclaration d'exposition aux radiations:**

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

### **This device is intended only for OEM integrators under the following conditions: (For module device use)**

- 1) The antenna must be installed such that 20 cm is maintained between the antenna and users, and
- 2) The transmitter module may not be co-located with any other transmitter or antenna.

As long as 2 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed.

### **Cet appareil est conçu uniquement pour les intégrateurs OEM dans les conditions suivantes: (Pour utilisation de dispositif module)**

- 1) L'antenne doit être installée de telle sorte qu'une distance de 20 cm est respectée entre l'antenne et les utilisateurs, et
- 2) Le module émetteur peut ne pas être coïmplanté avec un autre émetteur ou antenne.

Tant que les 2 conditions ci-dessus sont remplies, des essais supplémentaires sur l'émetteur ne seront pas nécessaires. Toutefois, l'intégrateur OEM est toujours responsable des essais sur son produit final pour toutes exigences de conformité supplémentaires requis pour ce module installé.

### **IMPORTANT NOTE:**

In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the Canada authorization is no longer considered valid and the IC ID can not 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 Canada authorization.

### **NOTE IMPORTANTE:**

Dans le cas où ces conditions ne peuvent être satisfaites (par exemple pour certaines configurations d'ordinateur portable ou de certaines co-localisation avec un autre émetteur), l'autorisation du Canada n'est plus considéré comme valide et l'ID IC ne peut pas être utilisé sur le produit final. Dans ces circonstances, l'intégrateur OEM sera chargé de réévaluer le produit final (y compris l'émetteur) et l'obtention d'une autorisation distincte au Canada.

### End Product Labeling

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: "Contains IC: 2878D-J20H045".

### Plaque signalétique du produit final

Ce module émetteur est autorisé uniquement pour une utilisation dans un dispositif où l'antenne peut être installée de telle sorte qu'une distance de 20cm peut être maintenue entre l'antenne et les utilisateurs. Le produit final doit être étiqueté dans un endroit visible avec l'inscription suivante: "Contient des IC: 2878D-J20H045".

### Manual Information To the End User

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as show in this manual.


### Manuel d'information à l'utilisateur final

L'intégrateur OEM doit être conscient de ne pas fournir des informations à l'utilisateur final quant à la façon d'installer ou de supprimer ce module RF dans le manuel de l'utilisateur du produit final qui intègre ce module. Le manuel de l'utilisateur final doit inclure toutes les informations réglementaires requises et avertissements comme indiqué dans ce manuel.

### For Taiwan 警語：

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

**Note:** 1. 本模組於取得認證後將依規定於模組本體標示審驗合格標籤 2. 系統廠商應於平台上標示「本產品內含射頻模組:  XXXyyyLPDzzzz-x (NCC ID)」字

## Europe – EU Declaration of Conformity

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:

- EN 60950-1:2006+A11:2009+A1: 2010  
Safety of Information Technology Equipment
- EN50385 : 2002
- Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110MHz - 40 GHz) - General public
- EN 300 328 V1.7.1: 2006
- 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 V1.8.1: 2008

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 V2.1.1 2009

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

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.

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 Český [Czech]	<i>[Jméno výrobce]</i> tímto prohlašuje, že tento <i>[typ zařízení]</i> je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
 Dansk [Danish]	Undertegnede <i>[fabrikantens navn]</i> erklærer herved, at følgende udstyr <i>[udstyrets typebetegnelse]</i> overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
 Deutsch [German]	Hiermit erkläre <i>[Name des Herstellers]</i> , dass sich das Gerät <i>[Gerätetyp]</i> in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
 Eesti [Estonian]	Käesolevaga kinnitab <i>[tootja nimi = name of manufacturer]</i> seadme <i>[seadme tüüp = type of equipment]</i> vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
 English	Hereby, <i>[name of manufacturer]</i> , declares that this <i>[type of equipment]</i> is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
 Español [Spanish]	Por medio de la presente <i>[nombre del fabricante]</i> declara que el <i>[clase de equipo]</i> cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
 Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ <i>[name of manufacturer]</i> ΔΗΛΩΝΕΙ ΟΤΙ <i>[type of equipment]</i> ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
 Français [French]	Par la présente <i>[nom du fabricant]</i> déclare que l'appareil <i>[type d'appareil]</i> est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
 Italiano [Italian]	Con la presente <i>[nome del costruttore]</i> dichiara che questo <i>[tipo di apparecchio]</i> è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo <i>[name of manufacturer / izgatavotāja nosaukums]</i> deklarē, ka <i>[type of equipment / iekārtas tips]</i> atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo <i>[manufacturer name]</i> deklaruoją, kad šis <i>[equipment type]</i> atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
 Nederlands [Dutch]	Hierbij verklaart <i>[naam van de fabrikant]</i> dat het toestel <i>[type van toestel]</i> in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
 Malti [Maltese]	Hawnhekk, <i>[isem tal-manifattur]</i> , jiddikjara li dan <i>[il-mudel tal-prodott]</i> jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Dirrettiva 1999/5/EC.
 Magyar [Hungarian]	Alulírott, <i>[gyártó neve]</i> nyilatkozom, hogy a <i>[... típus]</i> megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
 Polski [Polish]	Niniejszym <i>[nazwa producenta]</i> oświadczam, że <i>[nazwa wyrobu]</i> jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
 Português [Portuguese]	<i>[Nome do fabricante]</i> declara que este <i>[tipo de equipamento]</i> está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
 Slovensko [Slovenian]	<i>[Ime proizvajalca]</i> izjavlja, da je ta <i>[tip opreme]</i> v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	<i>[Meno výrobcu]</i> týmto vyhlasuje, že <i>[typ zariadenia]</i> spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
 Suomi [Finnish]	<i>[Valmistaja = manufacturer]</i> vakuuttaa täten että <i>[type of equipment = laitteen tyyppimerkintä]</i> tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
 Svenska [Swedish]	Härmed intygar <i>[företag]</i> att denna <i>[utrustningstyp]</i> står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.