

# **T77H330 WiFi Module User Manual Rev. 0.01**

# 1. Introduction

Project Name: 802.11n WiFi Module

This documentation describes the product specification of the WiFi 802.11b/g/n module, it is a confidential document of FOXCONN.

## 1.1 Scope

The T77H330 802.11b/g/n module provides wireless modem functionality utilizing CCK and OFDM technology. The objective of this use manual is to verify the functionality of the T77H330 802.11b/g/n module RF/Digital electronic design against the design specifications.

## 1.2 Function

- Support IEEE 802.11b/g/n specified functions
- 1x1 single stream with antenna diversity
- USB2.0 interface support

## 2. Product Specification

### 2.1 RF Specification

For 802.11b RF Specifications:

Items	Contents			
Specification	IEEE802.11b			
Mode	DSSS / CCK			
Channel	CH1 to CH13			
Data rate	1, 2, 5.5, 11Mbps			
DC Characteristics	Min.	Typ.	Max.	Unit
1.DC current				
1) TX mode@16dBm (During Burst)		185	280	mA
2) RX mode (During Burst)	-	75	140	mA
TX Characteristics	Min.	Typ.	Max.	Unit
2. Power Levels (Calibrated)				
1) 16dBm Target	14.5	16	17.5	dBm
3. Spectrum Mask @16dBm				
1) fc-33MHz < f < fc-22MHz	-	-	-50	dBr
2) fc-22MHz < f < fc-11MHz	-	-	-30	dBr
3) fc+11MHz < f < fc+22MHz	-	-	-30	dBr
4) fc+22MHz < f < fc+33MHz	-	-	-50	dBr
4. Frequency Error	-20	-	+20	ppm
5 Modulation Accuracy(EVM)@16dBm				
1) 1Mbps	-		-10	dB
2) 2Mbps	-		-10	dB
3) 5.5Mbps	-		-10	dB
4) 11Mbps	-		-10	dB
RX Characteristics	Min.	Typ.	Max.	Unit
5 Minimum Input Level Sensitivity				
1) 1Mbps (FER≤8%)	-	-94-	-91	dBm
2) 2Mbps (FER≤8%)	-	-93	-90	dBm
3) 5.5Mbps (FER≤8%)	-	-91	-88	dBm
4) 11Mbps (FER≤8%)	-	-88	-85	dBm
6 Maximum Input Level (FER≤8%)	-25	-15	-	dBm

## For 802.11g RF Specifications:

Items	Contents			
Specification	IEEE802.11g			
Mode	OFDM			
Channel	CH1 to CH13			
Data rate	6, 9, 12, 18, 24, 36, 48, 54Mbps			
<b>DC Characteristics</b>	Min.	Typ.	Max.	Unit
1.DC current				
1) TX mode@14dBm (During Burst)		185	280	mA
2) RX mode (During Burst)	-	75	140	mA
<b>TX Characteristics</b>	Min.	Typ.	Max.	Unit
2. Power Levels (Calibrated)				
1) 14dBm Target@6Mbps	12.5	14	15.5	dBm
2) 14dBm Target@9Mbps	12.5	14	15.5	dBm
3) 14dBm Target@12Mbps	12.5	14	15.5	dBm
4) 14dBm Target@18Mbps	12.5	14	15.5	dBm
5) 14dBm Target@24Mbps	12.5	14	15.5	dBm
6) 14dBm Target@36Mbps	12.5	14	15.5	dBm
7) 14dBm Target@48Mbps	12.5	14	15.5	dBm
8) 14dBm Target@54Mbps	12.5	14	15.5	dBm
3. Spectrum Mask @14dBm				
1) at fc +/- 11MHz	-	-	-20	dBr
2) at fc +/- 20MHz	-	-	-28	dBr
3) at fc > +/-30MHz	-	-	-40	dBr
4 Modulation Accuracy(EVM)@14dBm				
1) 6Mbps	-	-	-5	dB
2) 9Mbps	-	-	-8	dB
3) 12Mbps	-	-	-10	dB
4) 18Mbps	-	-	-13	dB
5) 24Mbps	-	-	-16	dB
6) 36Mbps	-	-	-19	dB
7) 48Mbps	-	-	-22	dB
8) 54Mbps	-	-28	-25	dB
5 Frequency Error	-20	-	+20	ppm
<b>RX Characteristics</b>	Min.	Typ.	Max.	Unit
6. Minimum Input Level Sensitivity				
1) MCS0 (PER < 10%)	-	-89	-86	dBm
2) MCS1 (PER < 10%)	-	-87	-84	dBm
3) MCS2 (PER < 10%)	-	-85	-82	dBm
4) MCS3 (PER < 10%)	-	-82	-79	dBm
5) MCS4 (PER < 10%)	-	-79	-76	dBm
6) MCS5 (PER < 10%)	-	-75	-72	dBm
7) MCS6 (PER < 10%)	-	-73	-70	dBm
8) MCS7 (PER < 10%)	-	-72	-69	dBm
7. Maximum Input Level (PER < 10%)	-30	-20	-	dBm

## For 802.11n HT20 RF Specifications:

Items	Contents			
Specification	IEEE802.11n HT20			
Mode	OFDM			
Channel	CH1 to CH13			
Data rate (MCS index)	MCS0/1/2/3/4/5/6/7			
DC Characteristics	Min.	Typ.	Max.	Unit
1.DC current				
1) TX mode@14dBm (During Burst)	-	185	280	mA
2) RX mode (During Burst)	-	75	140	mA
TX Characteristics	Min.	Typ.	Max.	Unit
2. Power Levels (Calibrated)				
1) 14dBm Target@MCS0	12.5	14	15.5	dBm
2) 14dBm Target@ MCS1	12.5	14	15.5	dBm
3) 14dBm Target@ MCS2	12.5	14	15.5	dBm
4) 14dBm Target@ MCS3	12.5	14	15.5	dBm
5) 14dBm Target@ MCS4	12.5	14	15.5	dBm
6) 14dBm Target@ MCS5	12.5	14	15.5	dBm
7) 14dBm Target@ MCS6	12.5	14	15.5	dBm
8) 14dBm Target@ MCS7	12.5	14	15.5	dBm
3. Spectrum Mask @14dBm				
1) at fc +/- 11MHz	-	-	-20	dBr
2) at fc +/- 20MHz	-	-	-28	dBr
3) at fc > +/-30MHz	-	-	-45	dBr
4. Modulation Accuracy(EVM)@ 14dBm				
1) MCS0	-	-	-5	dB
2) MCS1	-	-	-10	dB
3) MCS2	-	-	-13	dB
4) MCS3	-	-	-16	dB
5) MCS4	-	-	-19	dB
6) MCS5	-	-	-22	dB
7) MCS6	-	-	-25	dB
8) MCS7	-	-	-28	dB
5. Frequency Error	-20	-	+20	ppm
RX Characteristics	Min.	Typ.	Max.	Unit
6. Minimum Input Level Sensitivity				
1) MCS0 (PER < 10%)	-	-89	-86	dBm
2) MCS1 (PER < 10%)	-	-87	-84	dBm
3) MCS2 (PER < 10%)	-	-85	-82	dBm
4) MCS3 (PER < 10%)	-	-82	-79	dBm
5) MCS4 (PER < 10%)	-	-79	-76	dBm
6) MCS5 (PER < 10%)	-	-75	-72	dBm
7) MCS6 (PER < 10%)	-	-73	-70	dBm
8) MCS7 (PER < 10%)	-	-72	-69	dBm
7. Maximum Input Level (PER < 10%)	-30	-20	-	dBm

For 802.11n HT20 RF Specifications:

Items	Contents			
Specification	IEEE802.11n HT40			
Mode	OFDM			
Channel	CH3 to CH9			
Data rate (MCS index)	MCS0/1/2/3/4/5/6/7			
DC Characteristics	Mn.	Typ.	Max.	Unit
1. DC current				
1) TX mode @ 14dBm (During Burst)		185	280	mA
2) RX mode (During Burst)	-	75	140	mA
TX Characteristics	Mn.	Typ.	Max.	Unit
2. Power Levels (Calibrated) <sup>(1)</sup>				
1) 12dBm Target @ MCS0	10.5	12	13.5	dBm
2) 12dBm Target @ MCS1	10.5	12	13.5	dBm
3) 12dBm Target @ MCS2	10.5	12	13.5	dBm
4) 12dBm Target @ MCS3	10.5	12	13.5	dBm
5) 12dBm Target @ MCS4	10.5	12	13.5	dBm
6) 12dBm Target @ MCS5	10.5	12	13.5	dBm
7) 12dBm Target @ MCS6	10.5	12	13.5	dBm
8) 12dBm Target @ MCS7	10.5	12	13.5	dBm
3. Spectrum Mask @ 12dBm				
1) at fc +/- 21MHz	-	-	-20	dBr
2) at fc +/- 40MHz	-	-	-28	dBr
3) at fc > +/- 60MHz	-	-	-45	dBr
4. Modulation Accuracy (EVM) @ 12dBm				
1) MCS0	-	-8	-5	dB
2) MCS1	-	-13	-10	dB
3) MCS2	-	-16	-13	dB
4) MCS3	-	-19	-16	dB
5) MCS4	-	-21	-19	dB
6) MCS5	-	-25	-22	dB
7) MCS6	-	-28	-25	dB
8) MCS7	-	-31(3%)	-28	dB
5. Frequency Error	-20	-	+20	ppm
RX Characteristics	Min.	Typ.	Max.	Unit
6. Minimum Input Level Sensitivity				
1) MCS0 (PER < 10%)	-	-87	-84	dBm
2) MCS1 (PER < 10%)	-	-84	-81	dBm
3) MCS2 (PER < 10%)	-	-82	-79	dBm
4) MCS3 (PER < 10%)	-	-79	-76	dBm
5) MCS4 (PER < 10%)	-	-75	-72	dBm
6) MCS5 (PER < 10%)	-	-72	-69	dBm
7) MCS6 (PER < 10%)	-	-70	-67	dBm
8) MCS7 (PER < 10%)	-	-68	-65	dBm
7. Maximum Input Level (PER < 10%)	-30	-20	-	dBm

## 2.2 Electrical Specification

### Absolute Maximum Ratings

These specifications indicate levels where permanent damage to the device can occur. Functional operation is not guaranteed under these conditions. Operation at absolute maximum conditions for extended can adversely affect long-term reliability of the device.

### DC Specification

Parameter	sys	Min	Type	Max	Unit
USB input Voltage	VUSB	4.5	5	5.5	V

## 3. Pin descriptions

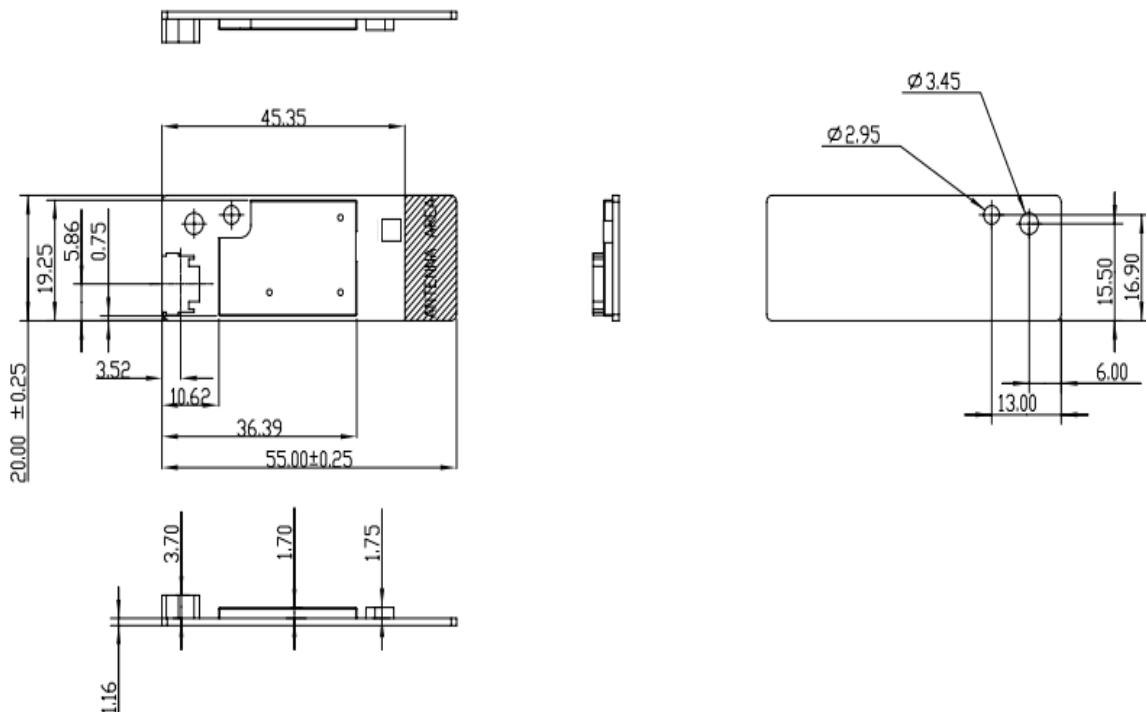
### 3.1 USB Pin descriptions

Pin Number	Pin Name	I/O	description
1	G		Gnd
2	D+	I/O	signal data pin +
3	D-	I/O	signal data pin -
4	V+		DC supply voltage

### 3.2 RF Connector

Pin Number	Pin Name	I/O	description
1	MAIN_ANT	I/O	RF connector
2	AUX_ANT	I/O	RF connector

## 4. Mechanical Drawing



## 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: MCLT77H330". 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.

<b>Déclaration</b>	<b>d'exposition</b>	<b>aux</b>	<b>radiations:</b>
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-T77H330".

### **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-T77H330".

### **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:  XXXyyLPDzzzz-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.

# CE0560 ①

[cs]Česky [Czech]	[Jméno výrobce] tímto prohlašuje, že tento [typ zařízení] je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
[da]Dansk [Danish]	Undertegnede [fabrikantens navn] erklærer herved, at følgende udstyr [udstyrets typebetegnelse] overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EU.
[de]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.
[et]Eesti [Estonian]	Käesolevaga kinnitab [footja nimi = name of manufacturer] seadme [seadme tüüp = type of equipment] vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
[en]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.
[es]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.
[el]Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ [name of manufacturer] ΔΗΛΩΝΕΙ ΟΤΙ [type of equipment] ΣΥΓΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/EK.
[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] deklaruoją, kad šis [equipment type] atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
[nl]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 essenziali u ma provvedimenti oħraji relevanti li hemm fid-Direttiva 1999/5/EC.
[hu]Magyar [Hungarian]	Alulírott, [gyártó neve] nyilatkozom, hogy a [... típus] megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
[pl]Polski [Polish]	Niniejszym [nazwa producenta] oświadcza, że [nazwa wyrobu] jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
[pt]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.
[sk]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 = laitteiden tyypipimerkintä] tyypinen 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.

