

User Manual

Product name: Wireless Audio Module Product

Model: WL1BKR22 /WL1BKT22

Document No:

Version: V3.0

Availability date: 2022-07-15

Edit	Review	Approve
ChaoMa		Xiao_Chen

1. General specifications

WL1BKT22 and WL1BKR22 is a small size and low power wireless audio transmitter module, which is designed based on Beken CC258 MCU and Beken BK5813 RF Chip.

- Forced the 5.2/5.8 GHz GFSK modulation
- Size: 35MMx35MMx5.03mm
- PCB onboard antenna
- I2S digital audio interface
- Built-in MCU memory 256K, BUILT-IN MCU flash memory 192K
- I2C controls external devices
- I/O configuration
- Primary and secondary audio delay time <20ms
- Applications: Wireless speakers, wireless subwoofers, home theater Module style

2. The application UI

WL1BKT22 Operation description

- First: the module is powered on and started by 3.3V;
- Second: the host transmits the audio signal to the module through I2S;
- Third: THE MCU CC2538 on the module decodes the I2S audio signal, and then transmits the decoded audio signal to the BK5813 RF chip on the module through SPI;
- Fourth: the BK5813 RF chip on the module transmits the audio through wireless transmission;
- Fifth: there is I2C communication between the module and the host, both sides obtain the status and control through I2C;
- The product automatically stops the transmission if the information fails to be transferred or the operation fails.
- WL1BKT22 as the main device

WL1BKR22 Operation description

- First: The module is powered on and started by 3.3V;
- Second: The BK5813 RF chip on the module receives the audio signal transmitted by the transmitting module through wireless transmission;
- Third: MCU CC2538 on the module obtains the audio received by BK5813 through SPI;
- Fourth: MCU CC2538 decodes the acquired audio signal and transmits the audio to the power amplifier on the subwoofer power amplifier board through I2S;
- Fifth: There is I2C communication between the module and the subwoofer power amplifier board, initializing the power amplifier on the subwoofer power amplifier board, and I0 port communication between the module and the subwoofer power amplifier board, controlling the power amplifier switch and LED state display.
- WL1BKR22 is a client device controlled by the WL1BKT2.

WL1BKT22 device is classified as a master device.

WL1BKR22 is classified as a Client device under the control of the WL1BKT22.

The product automatically stops the transmission if the information fails to be transferred or the operation fails.

ISED RSS-247 (6.4) required by the technology

When there is no information to transmit or an operation fails, the device automatically discontinue transmission. After the transmission is discontinued, the TX module enters the reconnection state until it is reconnected or the power supply is switched off passively. After the transmission is discontinued, the RX module enters the RE-connection state for one minute, IF no connection, enters the standby mode after one minute.

FCC 15.407 (c) required by the technology

The device would automatically discontinue transmission if there is no information to transmit or if the operation fails. After the transmission is discontinued, the TX module enters the reconnection state until it is reconnected or the power supply is switched off passively. After the transmission is discontinued, the RX module enters the RE-connection state for one minute, IF no connection, enters the standby mode after one minute.

WL1BKT22 (TX module):

The reconnection state is TX will transmit control signal to RX for pair each other.

The TX re-try to transmit control signal to RX on complete frame or burst intervals until they connect successfully or power supply be off passively.

WL1BKR22 (RX module):

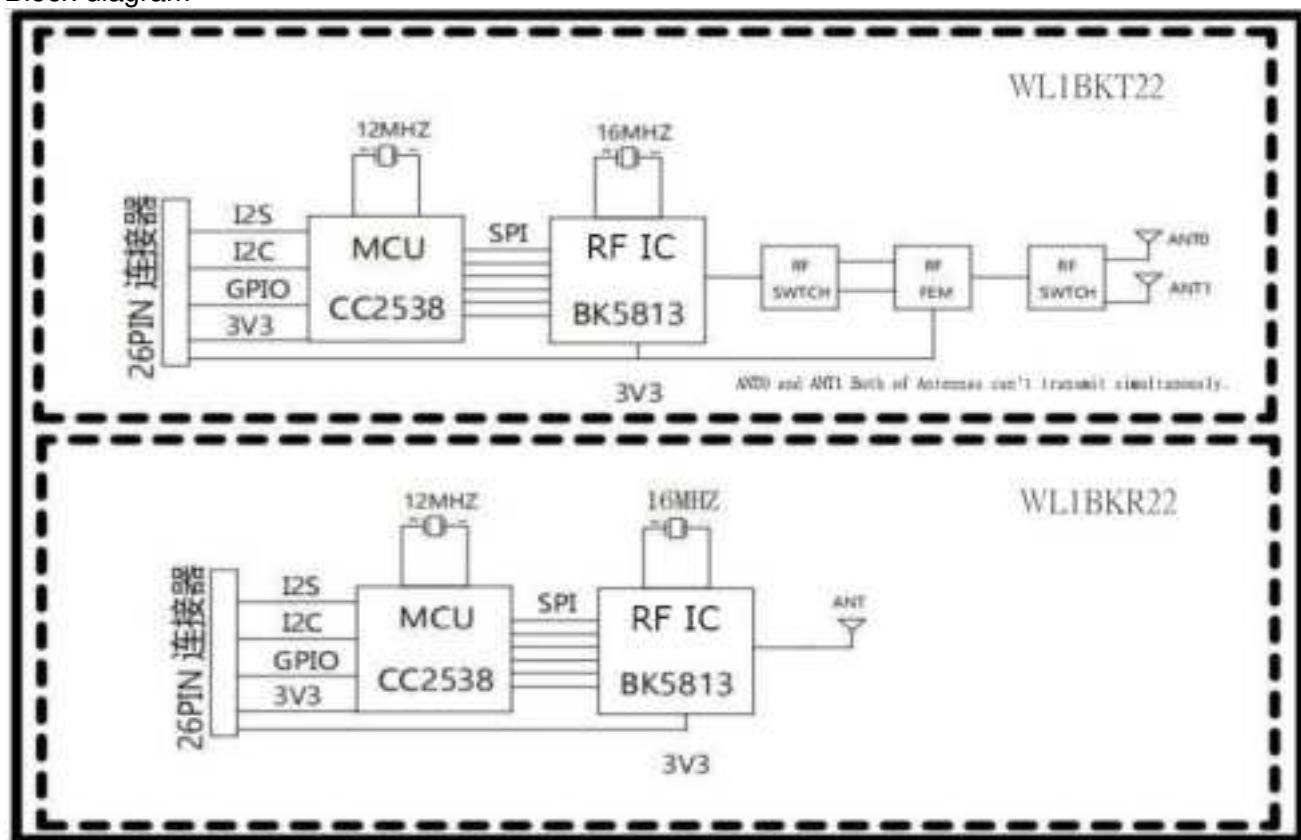
The connection state is no transmit data by RX module. It's only permit to transmit the information that is repetitive codes to TX on complete frame or burst intervals.

The standby mode is enter sleep mode to save consumption power.

On this mode, the RX doesn't transmit any information or data to TX.

The module-[WL1BKT22] is installed in the speaker, and the signal of the sound is provided through the HDMI or Optical ports of the TV audio products; When the speaker receive the sound signal, it will transmit the sound signal to another speaker (which is installed with the module-[WL1BKR22]).

Block diagram



Note: FCC IC Frequencies of this transmitter 5155-5245MHz and 5730-5848MHz.

Note: EU/UKCA Frequencies of this transmitter 5730-5848MHz.

Note: MCU built-in memory 256K, MCU built-in flash memory 192K and power supply regulation



RF Technical Specification			
Communication Spec	U-NII Band 3		
Modulation	GFSK		
Data Rate	2 Mbps		
RF Output Power	UNII Band 3:	14	dBm (EIRP)
Frequency Bands	UNII Band 3:	5730-5848 MHz	

FCC Statement

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:

- 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 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.

Manufacturers integrating the Radio Module into other devices should note the following:

The device is compliant with part 15.247 and 15.407 of Title 47 of the FCC rules. If the Link Module is integrated into a new host product, the final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

IC Statement

This Class B digital apparatus complies with Canadian ICES-003.

5150-5250MHz is limited to use indoor only

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux normes CNR exemptes de licence d'Industrie Canada. Le fonctionnement est soumis aux deux conditions suivantes :

- (1) cet appareil ne doit pas provoquer d'interférences et
- (2) cet appareil doit accepter toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité de l'appareil.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

-Label and Compliance Information

The final end product must be labeled in a visible area with the following:

"Contains FCC ID: BEJ-WL1BKT22", "Contains FCC ID: BEJ-WL1BKR22",

"Contains IC: 2703H-WL1BKT22" "Contains IC: 2703H-WL1BKR22".

The grantee's FCC ID can be used only when all FCC/ IC compliance requirements are met.

-RF exposure

The module will install into mobile device such as Sound Bar

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.

Information on test modes and additional testing requirements

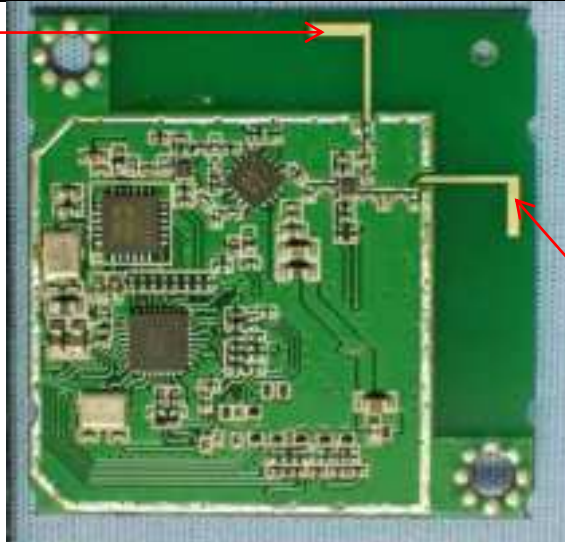
-OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, additional transmitter in the host, etc.).

Antenna Specification					
LG, WL1BKR22					
No.	Antenna Part Number	Manufacturer	Antenna Type	Frequency (MHz)	Max Gain(dBi)
1.	RX Antenna	N/A	PCB Printing Antenna	5150	3.20
				5170	3.05
				5190	3.16
				5210	3.45
				5230	3.68
				5250	3.74
				5450	2.64
				5470	2.44
				5490	2.34
				5500	2.14
				5750	3.09
				5770	3.00
				5790	2.94
				5810	3.00
				5830	3.14
				5850	3.05

Antenna Specification

LG, WL1BKT22

Antenna #1



Antenna #2

No.	Antenna Part Number	Manufacturer	Antenna Type	Frequency (MHz)	Max Gain(dBi)
1.	Antenna #1	N/A	PCB Printing Antenna	5150	2.66
				5170	2.87
				5190	2.94
				5210	3.25
				5230	3.23
				5250	3.11
				5450	2.98
				5470	2.98
				5490	2.77
				5500	2.59
				5750	2.38
				5770	2.38
				5790	2.48
				5810	2.33
2.	Antenna #2	N/A	PCB Printing Antenna	5830	2.37
				5850	2.22
				5150	3.57
				5170	3.35
				5190	3.42
				5210	3.69
				5230	4.00
				5250	3.94
				5450	3.32
				5470	3.48
				5490	3.37
				5500	3.42
				5750	3.98
				5770	4.05
				5790	3.79
				5810	3.94
				5830	4.20
				5850	4.09

UKCA / EU DECLARATION OF CONFORMITY

LG Electronics

Number²

WL1BKT22_DoC

Name and address of the Manufacturer³

LG Electronics Inc
LG Twin Towers
128 Yeoui-daero, Yeongdeungpo-gu
Seoul, 07336
Korea

This declaration of conformity is issued under the sole responsibility of the manufacturer.⁴

Object of the declaration⁵

Product information⁶

Product Name

Wireless Audio Module

Model Name

WL1BKT22

Additional information⁷

N/A

The object⁸ of the declaration described above is in conformity with the relevant Union harmonisation legislation:⁹

- References to the relevant harmonised standards used or references to the technical specifications in relation to which conformity is declared

Radio Equipment Directive 2014/53/EU

Article 3.1a Safety Health RF safety (Regulation 6(1)(a)) Product safety (Regulation 6 (1)(a)) EN IEC 62368-1:2020+A11:2020 EN IEC 62311:2020	Article 3.2b EMC EMC (Regulation 6(1)(b)) ETSI EN 301 489-1 V 2.2.3 ETSI EN 301 489-3 V 2.1.1	Article 3.2 Radio Radio spectrum (Regulation 6(2)) ETSI EN 300 440 V2.1.1
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The notified body¹⁰

Name: American Certification Body, Inc.
Number: 1588

performed

a conformity assessment of the technical construction file

and issued the certificate

Additional information⁷

SW Version: V3.0
HW Version: TX_V1.7
Accessories Supplied: N/A

Signed for and on behalf of:¹¹ LG Electronics Inc.

Authorised Representative:
LG Electronics European Shared Service Center B.V.
Krijgsman 1, 1186 DM Amstelveen, The Netherlands

Name and Surname / Function:
Yun Hee Yang / Director



Date of issue:
15th. July, 2022

- 1 **(EN)EU Declaration of Conformity / (BG)ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ С ИЗИСКВАНИЯТА НА ЕС / (ES)Declaración UE de Conformidad / (CS)EU Prohlášení o shodě / (DA)EU-Overensstemmelseserklæring / (DE)EU-Konformitätserklärung / (ET)Eli Vastavusdeklaratsioon / (EL)ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ΕΕ / (FR)Déclaration UE de Conformité / (GA)Dearbhú Comhréireachta an AE / (IT)Dichiarazione UE di Conformità / (LV)ES Atbilstības Deklarācija / (LT)ES Atitikties Deklaracija / (HU)EU-Megfelelőségi Nyilatkozat / (MT)Dikjarazzjoni Tal-Konformità Tal-UE / (NL)EU-Conformiteitsverklaring / (PL)Deklaracja Zgodności UE / (PT)Declaração de Conformidade UE / (RO)Declarația de Conformitate UE / (SK)Vyhľadanie o Zhode EÚ / (SL)Izjava EU o Skladnosti / (FI)EU-Vaatimustenmukaisuusvakuutus / (SV)EU-Försäkran om Överensstämmelse / (TR)Uygunluk Beyanı / (NO)EU Samsvarserklæring / (HR)EZ izjava o skladnosti / (IS)ESB Samræmisýfirlýsing**
- 2 **(EN) Number / (BG) № / (ES) No / (CS) Č. / (DA) Nr. / (DE) Nr. / (ET) Nr / (EL) Αριθ. / (FR) N° / (GA) Uimhir / (IT) N. / (LV) Nr. / (LT) Nr. / (HU) Szám / (MT) Numru / (NL) Nr. / (PL) Nr / (PT) N.º / (RO) Nr / (SK) Číslo / (SL) Št. / (FI) N:o / (SV) Nnr / (TR) Sayısı / (NO) Nr. / (HR) Broj / (IS) Númer**
- 3 **(EN)Name and address of the Manufacturer / (BG)Наименование и адрес на производителя / (ES)Nombre y dirección del fabricante / (CS)Obchodní jméno a adresa výrobce / (DA) Fabrikantens navn og adresse / (DE)Name und Anschrift des Herstellers / (ET)Valmistaja nimi ja aadress / (EL)Όνομα και διεύθυνση κατασκευαστή / (FR)Nom et adresse du fabricant / (GA)Ainm agus seoladh an Mhóraróra / (IT)Nome e indirizzo del fabbricante / (LV)Ražotāja nosaukums un adrese / (LT)Gamintojo pavadinimas ir adresas / (HU)Gyártó neve és címe / (MT)Isem u indirizz tal-manifattur / (NL)Naam en adres van de fabrikant / (PL)Nazwa i adres producenta / (PT)Nome e endereço do fabricante / (RO)Numele și adresa Producătorului / (SK)Obchodné meno a adresa výrobcu / (SL)Ime in naslov proizvajalca / (FI)Valmistajan nimi ja osoite / (SV)Tillverkarens namn och adress / (TR)İmalatçının adı ve adresi / (NO)Navn på og adresse til produsenten / (HR)Naziv i adresa proizvođača / (IS)Nafn og heimilisfang framleiðanda**
- 4 **(EN)This declaration of conformity is issued under the sole responsibility of the manufacturer / (BG)За настоящата декларация за съответствие отговорност носи единствено производителят / (ES)La presente declaración de conformidad se expide bajo la exclusiva responsabilidad del fabricante / (CS)Toto prohlášení o shodě vydal na vlastní odpovědnost výrobce / (DA)Denne overensstemmelseserklæring udstedes på fabrikantens ansvar / (DE)Diese Konformitätserklärung wird unter der alleinigen Verantwortung des Herstellers abgegeben / (ET)Käesolev vastavusdeklaratsioon on välja antud valmistaja ainuvastutuseel / (EL)Η παρούσα δήλωση συμμόρφωσης εκδίδεται με αποκλειστική ευθύνη του κατασκευαστή / (FR)La présente déclaration de conformité est établie sous la seule responsabilité du fabricant / (GA)Eisítear an dearbhú comhréireachta faoi fhreagracht aonair an mhóraróra / (IT)La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante / (LV)Šī atbilstības deklarācija ir izdota vienīgi uz šāda ražotāja atbildību / (LT)Ši atitikties deklaracija išduota tik gamintojo atsakomybe / (HU)E megfelelőségi nyilatkozat a gyártó kizárólagos felelősségére kerül kibocsátásra / (MT)Din id-dikjarazzjoni tal-konformità tinhareg taht ir-responsabbiltà unika tal-manifattur / (NL)Deze conformiteitsverklaring wordt verstrekt onder volledige verantwoordelijkheid van de fabrikant / (PL)Niniejsza deklaracja zgodności wydana zostaje na wyłączną odpowiedzialność producenta / (PT)A presente declaração de conformidade é emitida sob a exclusiva responsabilidade do fabricante / (RO)Prezentă declarație de conformitate este emisă pe răspundere exclusivă a producătorului / (SK)Toto vyhlásenie o zhode sa vydáva na výhradnú zodpovednosť výrobcu / (SL)Ta izjava o skladnosti se izda na lastno odgovornost proizvajalca / (FI)Tämä vaatimustenmukaisuusvakuutus on annettu valmistajan yksinomaista vastuulla / (SV)Denna försäkran om överensstämmelse utfärdas på tillverkarens eget ansvar / (TR)Bu uygunluk beyanı, imalatçının sorumluluğu altında verilir / (NO)Denne samsvarserklæringen er utstedt på produsentens eneansvar / (HR)Za izdavanje ove izjave o skladnosti isključivo je odgovoran proizvođač / (IS)Þessi samræmisýfirlýsing er gefin út eingöngu á ábyrgð framleiðanda**
- 5 **(EN)Object of the declaration / (BG)Обект на декларацията / (ES)Objeto de la declaración / (CS)Předmět prohlášení / (DA)Erklæringens genstand / (DE)Gegenstand der Erklärung / (ET)Deklareeritav ese / (EL)Σκοπός της δήλωσης / (FR)Objet de la déclaration / (GA)Cuspóir an dearbhaith / (IT)Oggetto della dichiarazione / (LV)Deklarācijas priekšmets / (LT)Deklaracijos objektas / (HU)A nyilatkozat tárgya / (MT)L-ghan tad-dikjarazzjoni / (NL)Voorwerp van de verklaring / (PL)Przedmiot deklaracji / (PT)Objecto da declaração / (RO)Obiectul declarației / (SK)Predmet vyhlásenia / (SL)Predmet izjave / (FI)Vakuutuksen kohde / (SV)Föremål för försäkran / (TR)Beyanın nesne / (NO)Erklæringens gjenstand / (HR)Predmet izjave / (IS)Hlutur til yfirlýsingar**
- 6 **(EN)Product information; Product Name; Model Name / (BG)Информация за продукта, името на продукта, името на модела / (ES)Información del producto; nombre del producto; nombre del modelo / (CS)Informace o výrobku; Název výrobku; Název modelu / (DA)Produkt information; Produktnavn; Modelnavn / (DE)Produktinformation; Produktname; Modellname / (ET)Toote kirjeldus; Toote nimetus; Mudeli nimi / (EL)Πληροφορίες για το προϊόν, όνομα προϊόντος, όνομα μοντέλου / (FR)Information sur le produit; Nom du produit; Nom du modèle / (GA)Faisnéis Táirge; Ainm Táirge; Ainm Múnla / (IT)Informazioni sul prodotto; denominazione del prodotto; Nome del modello / (LV)Informācija par izstrādājumu; Izstrādājuma nosaukums; Modeļa nosaukums / (LT)Informacija apie produktą; produkto pavadinimas; modelio pavadinimas / (HU)Termékinformáció; a termék neve; típusnév / (MT)Informazzjoni tal-prodott; isem tal-prodott; isem tal-model / (NL)Product informatie, Product naam; Model naam / (PL)Informacje o produkcie; nazwa produktu; nazwa modelu / (PT)Informação sobre o produto; Nome do Produto; Designação do Modelo / (RO)Informații despre Produs; Denumire Produs; Nume Model / (SK)Informácie o výrobku; Názov výrobku; Názov modelu / (SL)Podatki o izdelku; ime izdelka; ime modela / (FI)Tuotetiedot; tuotteen nimi; malli nimi / (SV)Produktinformation; produktnamn; modellnamn / (TR)Ürün bilgileri; Ürün Adı; Model Adı / (NO)Produktinformasjon, Produktnavn, Modellnavn / (HR)Podatci o proizvodu; Naziv proizvoda; Naziv modela / (IS)Vöruupplýsingar; Nafn vöru; Nafn gerðar**
- 7 **(EN)Additional information / (BG)Допълнителна информация / (ES)Información adicional / (CS)Další informace / (DA)Supplerende oplysninger / (DE)Zusätzliche Angaben / (ET)Lisateave / (EL)Συμπληρωματικές πληροφορίες / (FR)Informations supplémentaires / (GA)Faisnéis bheise / (IT)Ulteriori informazioni / (LV)Papildu informācija / (LT)Papildoma informacija / (HU)Kiegészítő információk / (MT)Informazzjoni addizzjonali / (NL)Aanvullende informatie / (PL)Informacje dodatkowe / (PT)Informações complementares / (RO)Informații suplimentare / (SK)Dodatočné informácie / (SL)Dodatni podatki / (FI)Lisätietoja / (SV)Ytterligare information / (TR)Ek bilgi / (NO)Tilleggsopplysninger / (HR)Dodatne informacije / (IS)Viðbótarupplýsingar**
- 8 **(EN)The object of the declaration described above is in conformity with the relevant Union harmonisation legislation / (BG) Предметът на декларацията, описан по-горе, отговаря на съответното законодателство на Съюза за хармонизация / (ES) El objeto de la declaración descrita anteriormente es conforme con la legislación de armonización pertinente de la Unión / (CS) Výše popsaný předmět prohlášení je ve shodě s příslušnými harmonizačními právními předpisy Unie / (DA) Genstanden for erklæringen, som beskrevet ovenfor, er i overensstemmelse med den relevante EU-harmoniseringslovgivning / (DE) Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union / (EL) Ο στόχος της δήλωσης που περιγράφεται παραπάνω είναι σύμφωνα με τη σχετική ευρωπαϊκή νομοθεσία εναρμόνισης / (FR) L'objet de la déclaration décrit ci-dessus est conforme à la législation d'harmonisation de l'Union applicable / (GA) Ta cuspóir an dearbhaith / a thuairiscítear thuas / i gcomhréir le reachtaíocht ábhartha um chomhchuibhiú de chuid an Aontais / (IT) L'oggetto della dichiarazione di cui sopra è conforme alla pertinente normativa di armonizzazione dell'Unione / (LV) Iepriekš aprakstītais deklarācijas priekšmets atbilst attiecīgajam Savienības saskaņošanas tiesību aktam / (LT) Pirmaiau aprašytas deklaracijos objektas atitinka susijusių darinamuosius Sąjungos teisės aktus / (HU) A fent ismertetett nyilatkozat tárgya megfelel a vonatkozó uniós harmonizációs jogszabályoknak / (MT) L-ghan tad-dikjarazzjoni deskritt hawn fuq huwa konformi mal-legislazzjoni ta' armonizzazzjoni rilevanti tal-Unjoni / (NL) Het hierboven beschreven voorwerp is in overeenstemming met de desbetreffende harmonisatiewetgeving van de Unie / (PL) Wymieniony powyżej przedmiot niniejszej deklaracji jest zgodny z odnosnymi wymaganiami unijnego prawodawstwa harmonizacyjnego / (PT) O objeto da declaração acima descrito está em conformidade com a legislação de harmonização da União aplicável / (RO) Obiectul declarației descris mai sus este în conformitate cu legislația relevantă de armonizare a Uniunii / (SK) Uvedený predmet vyhlásenia je v zhode s príslušnými harmonizačnými právnymi predpismi Unie / (SL) Predmet navedene izjave u skladu je s mjednarodnim zakonodavstvom Unije o usklajevanju / (FI) Edellä kuvattu vakuutuksen kohde on asiaa koskevan unionin yhdenmukaistamislainsäädännön vaatimusten mukainen / (SV) Föremålet för försäkran ovan överensstämmer med den relevanta harmoniserade unionslagstiftningen / (TR) Yukarıda açıklanan bildirinin nesnesi ilgili Toplukul uyum mevzuatına uygundur / (NO) Føremålet med erklæringen beskrevet ovenfor er i samsvar med den aktuelle harmoniseringslovgivningen i unionen / (HR) A fent ismertetett nyilatkozat tárgya megfelel a vonatkozó uniós harmonizációs jogszabályoknak / (IS) Efni ofangreindrar yfirlýsingar er í samræmi við hlutaðeigandi staðlaða löggjöf Evrópusambandsins**
- 9 **(EN)References to the relevant harmonised standards used or references to the technical specifications in relation to which conformity is declared / (BG)наименованията на използваните хармонизирани стандарти или техническите спецификации, спрямо които се декларира съответствието / (ES)Referencias a las normas armonizadas pertinentes utilizadas, o referencias a las especificaciones técnicas respecto a las cuales se declara la conformidad / (CS)Případné odkazy na příslušné harmonizované normy, které byly použity, nebo na technické specifikace, na jejichž základě se shoda prohlašuje / (DA)Referencer til de relevante anvendte harmoniserede standarder eller referencer til de tekniske specifikationer, som der erklæres overensstemmelse med / (DE)Angabe der einschlägigen harmonisierten Normen, die zugrunde gelegt wurden, oder Angabe der einschlägigen Spezifikationen, für die die Konformität erklärt wird / (ET)Viited kasutatud asjakohastele ühtlustatud standarditele või viited tehnilistele spetsifikatsioonidele, millega seoses vastavust kinnitatakse / (EL)νενεία των σχετικών εναρμονισμένων προτύπων που χρησιμοποιήθηκαν ή των τεχνικών προδιαγραφών με βάση τις οποίες δηλώνεται η συμμόρφωση / (FR)Références des normes harmonisées pertinentes appliquées ou des spécifications techniques par rapport auxquelles la conformité est déclarée / (GA)Tagairtí do na caighdeáin chomhchuibhiútha ábhartha a úsáidítear nó tagairtí do na sonraíochtaí teicniúla i ndáil leis an gcomhréireacht a dhearbhaítear / (IT)Riferimenti alle pertinenti norme armonizzate utilizzate o riferimenti alle specifiche tecniche in relazione alle quali è dichiarata la conformità / (LV)Norādes uz attiecīgajiem saskaņotajiem standartiem vai norādes uz tehniskām specifikācijām, attiecībā uz ko tiek deklarēta atbilstība / (LT)Taikytų darnųjų standartų nuorodos arba techninių specifikacijų, pagal kurias buvo deklaruota atitikties, nuorodos / (HU)Adott esetben hivatkozás az alkalmazásra került vonatkozó harmonizált szabványokra, illetőleg azokra a műszaki leírásokra, amelyekre nézve a megfelelésről nyilatkoznak / (MT)Referenzi għall-istandards armonizzati rilevanti li ntużaw, jew referenzi għall-ispeċifikazzjonijiet li b'relazzjoni għallimn qed tigi ddikjarata l-konformità / (NL)Vermelding van de toegepaste geharmoniseerde normen of van de technische specificaties waarop de conformiteitsverklaring betrekking heeft / (PL)Odwolania do odnosnych norm zharmonizowanych, które zastosowano, lub do specyfikacji technicznych, w odniesieniu do których deklarowana jest zgodność / (PT)Referências às normas harmonizadas aplicáveis utilizadas ou às especificações técnicas em relação às quais é declarada a conformidade / (RO)Referințe la standardele armonizate relevante folosite sau trimiteri la specificațiile tehnice în legătură cu care se declară conformitatea / (SK)Prípadné odkazy na príslušné použité harmonizované normy alebo odkazy na technické špecifikácie, na základe ktorých sa vyhlasuje zhoda / (SL)Napotila na uporabljene usklajene standarde ali napotila na tehnične specifikacije za skladnost, ki so navedene na izjavi / (FI)Viittaus niihin asiaankuuluihin yhdenmukaistettuihin standardeihin, joita on käytetty, tai viittaus teknisiin eritelmiin, joiden perusteella vaatimustenmukaisuusvakuutus on annettu / (SV)Hänvisningar till de relevanta harmoniserade standarder som använts eller hänvisningar till de tekniska specifikationerna enligt vilka överensstämmelsen försäkras / (TR)İlgili uyumlulaştırılmış kullanan standartlar veya uygunluk beyanı ile ilgili olarak teknik referanslar referanslar / (NO)Hensvisninger til de relevante harmoniserte standardene som er brukt eller henvisninger til de spesifikasjonene det erklæres samsvar med / (HR)Upućivanje na mjednarodne usklađene norme ili upućivanje na tehničke specifikacije na temelju kojih se izjavljuje skladnost / (IS)Tilvisanir í viðeigandi samhæfingarstaðla sem eru notaðir eða tilvisanir í þær tækniforskriftir sem tengjast samræmisýfirlýsingunni**
- 10 **(EN)The notified body; performed; and issued the certificate / (BG)нотифицираният орган; извърши; и издаде сертификата / (ES)El organismo notificado; ha efectuado; y expide el certificado / (CS)Oznámený subjekt; provedl; a vydal osvědčení / (DA)Det bemyndigede organ; der har foretaget; og udstedt attesten / (DE)Die notifizierte Stelle; hat; und folgende Bescheinigung ausgestellt / (ET)Teavitatus asutus; teostas; ja andis välja tõendi / (EL)Ο κοινοποιημένος οργάνισμός; πραγματοποιήσε; και εξέδωσε τη βεβαίωση / (FR)L'organisme notifié; a effectué; et éabli l'attestation / (GA)Rinne an comhlacht dá dtugtar fógra... agus é d'eiigh sé an deimhníú / (IT)l'organismo notificato; ha effettuato; e rilasciato il certificato / (LV)Pilinvarotā iestāde; ir veikusi; un izsniegusi sertifikātu / (LT)Notifikuotoji įstaiga; atliko; ir išdavė sertifikātą / (HU)A bejelentett szervet; elvégezte a; és a következők tanúsítványát adta ki / (MT)Il-korp notifikat; wettaq; u hareġ iċ-ċertifikat / (NL)De aangemelde instantie; heeft een; uitgevoerd en het certificaat verstrekt / (PL)Jednostka notyfikowana; przeprowadziła; i wydała certyfikat / (PT)o organismo notificado; efectuou; e emitiu o certificado / (RO)Organismul notificat; a efectuat; și a emis certificatul / (SK)notifikovaný orgán; vykonal; a vydal osvědčení / (SL)je prijavljen organ; izvedel; in izdal certifikat / (FI)ilmoitettu laitos; suoritti; ja antoi todistuksen / (SV)Det anmälda organet; har utfört; och utfärdat intyget / (TR)Kuruluşa bildirdi; yapılan ve sertifikta verilir / (NO)Det meldte organ; utførte; som også inkluderte test resultat og utstedelse av sertifikat / (HR)Obavješteno tijelo; provelo je; uključujući izvješće o isplivanju i izdalo je certifikat / (IS)Hinn tilkynni aðili...framkvæmdi... þar með talið prófunarskýrslur og gaf út vottdóð**
- 11 **(EN)Signed for and on behalf of / (BG) Подпис за или от името на / (ES)Firmado por y en nombre de / (CS) Podepsáno za a jménem / (DA) Underskrevet for og på vegne af / (DE) Unterzeichnet für und im Namen von / (ET) Kelle nimel ja poolthaj kirjutatud / (EL) Υπογραφή για λογαριασμό και εξ ονόματος / (FR) Signé par et au nom de / (GA) Sinithe le ghaighaid agus thar ceann an / (IT) Firmato in vece e per conto di / (LV) Parakstīts / (LT) Už ką ir kieno vardu pasirašyta / (HU) Cégszerű aláírás / (MT) Iffirmata għal u f'isem / (NL) Ondertekend voor en namens / (PL) Podpisano w imieniu / (PT) Assinado por e em nome de / (RO) Semnat pentru și in numele / (SK) Podpísané za a v mene / (SL) Podpisano za in v imenu / (FI) puolesta allekirjoittanut / (SV) Undertecknat för / (TR) Ve adına imzalanmıştır / (NO) Undertegnet for og på vegne av / (HR) Potpisano za i u ime / (IS) Undirritað fyrir og fyrir hönd**