

EU-type examination certificate

No: **RED 80190015**

Product: Smart Home System

Type/model: (see enclosure to certificate)

Brand Name: iContrALL

Applicant: iContrALL Intelligent Building Electronics Ltd.
2120 Dunakeszi, Eszék utca 2., Hungary

Manufacturer: iContrALL Intelligent Building Electronics Ltd.
2120 Dunakeszi, Eszék utca 2., Hungary

Related standards: EN 50491-3:2009
EN 62311:2008
EN 301 489-3 V2.1.1:2019
EN 301 489-1 V2.2.3:2019
EN 50491-5-2:2010
EN IEC 61000-3-2:2019
EN 61000-3-3:2013
EN 300 220-2 V3.1.1:2017

Notified Body Evaluation Report No: 80190015RED

CONCLUSION:

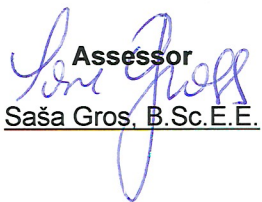
After the examination of the technical documentation as drawn up by the manufacturer, KONČAR-Electrical Engineering Institute Inc. confirms that the documentation demonstrates that the requirements, including the essential requirements of Article 3.1.a, Article 3.1.b and Article 3.2. of Radio equipment directive (2014/53/EU) have been met. The conformity assessment on the radio equipment listed above and as described in Evaluation report Nr.80190015RED has been carried out in accordance with Annex III, Module B of Radio equipment directive (2014/53/EU). This EU-type examination certificate relates only to the documents submitted to KONČAR-Electrical Engineering Institute Inc. and described in Evaluation Report No.80190015RED.

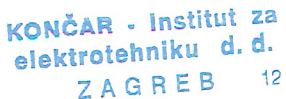
Period of validity:

03.12.2022.

Place and date:

Croatia, Zagreb, 04.12.2019.


Assessor
Saša Gros, B.Sc.E.E.

Seal


Head of SCERT Department

Sanda Kozlik, B.Sc. MBA

ENCLOSURE TO CERTIFICATE

Broj: **RED 80190015**

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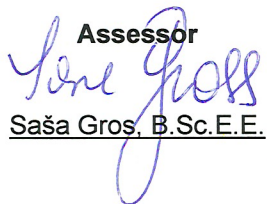
Issued Certificate include following products and models of smart home system:

Product	Model
Alarm System Controller	AL1C
4 Level Elevator Controller	EL4C
1 Ch Gate Controller	GC1C
2 Ch Gate Controller	GC2C
1 Ch Light Controller	LC1W
2 Ch Light Controller	LC2W
4 Ch Light Controller	LC4C
2 Ch LED Controller	LC2CY
4 Ch LED Controller	LC4CY
4 Ch LED Controller	LC4CZ
1 Ch RGB LED Controller	LC1CX
4 Ch Special Shade Controller	SHBC
1 Ch Shade Controller	SH1W
2 Ch Shade Controller	SH2C
2 Ch Universal Controller	SW2C
4 Ch Universal Controller	SW4C
4 Ch Universal Controller	SW4CP
1 Ch Rotary Ball Valve Actuator Controller	WV1C
4 Ch Rotary Ball Valve Actuator Controller	WV4C
1 Ch Power Switch	SW1W
9 Ch Wireless Switch	WS9B
Power Drive	PD2E
Power Drive	PD2ER
Power Drive	PD2C
Power Drive	PD2CR

Place and date:

Croatia, Zagreb, 04.12.2019.

Head of SCERT Department

Assessor

Saša Gros, B.Sc.E.E.

M.P.
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ZAGREB 12


Sanda Kozlik, B.Sc., MBA

Notified Body evaluation report**No: 80190015RED****According to:** *Annex III of Directive 2014/53/EU*

Product:	Smart Home System
Typemodel:	(see enclosure to certificate)
Manufacturer:	iContrALL Intelligent Building Electronics Ltd. 2120 Dunakeszi, Eszék utca 2., Hungary

The device under evaluation was a Smart Home System. The product includes the following radio specifications:

Description:	433 AM radio module
Model:	HOPERF RFM26W
Type:	433 MHz
Centre freq. 433.91 MHz Modulation Type: OOK (On-Off-Keying, AM) Data Rate: 2820 sps OCW (Occupied channel width): 28.2 kHz	
Antenna gain (dBi)	0 - 2 dBi
Channel spacing	N/A (non-channelized eq.)
Modulation	OOK
Maximum radiated power (conducted ERP)	9.2 dBm

Description:	433 FM radio module		
Model:	HOPERF RFM26W		
Type:	433 MHz		
Centre freq. 433.92 MHz Modulation Type: 2FSK (Frequency Shift Keying, FM) Data Rate: 10000 sps OCW (Occupied channel width): 70.0 kHz			
Antenna gain (dBi)		0 - 2 dBi	
Channel spacing		N/A (non-channelized eq.)	
Modulation		2FSK	
Maximum radiated power (conducted ERP)		9.4 dBm	

Description:	868 FM radio
Model:	HOPERF RFM26W
Type:	868 MHz
Center freq 869.5 MHz Modulation Type: 2GFSK (Gaussian Frequency Shift Keying, FM) Data Rate: 10000 sps OCW (Occupied channel width): 50 kHz	
Antenna gain (dBi)	0 - 2 dBi
Channel spacing	N/A (non-channelized eq.)
Modulation	2GFSK
Maximum radiated power (conducted ERP)	17,14 dBm

Evaluation of submitted technical documentation

<i>Essential requirements</i>	<i>Standards</i>	<i>Evidence</i>	<i>Result</i>
Article 3.1 a) Health & safety requirements	EN 50491-3:2009 EN 62311:2008	Test Report: 21583SIG19055_1, 30.06.2019. KONČAR-Electrical Engineering Institute, Laboratory Center	Compliant
Article 3.1 b) EMC requirements	EN 301 489-3 V2.1.1:2019 EN 301 489-1 V2.2.3:2019 EN 50491-5-2:2010 EN IEC 61000-3-2:2019 EN 61000-3-3:2013	Test Report: 21583EMC18066_2, 22.05.2019. KONČAR-Electrical Engineering Institute, Laboratory Center	Compliant
Article 3.2 The efficient use of radio spectrum	EN 300 220-2 V3.1.1:2017	Test Report: 21583RED19015, 30.05.2019. 21583RED19016, 30.05.2019. 21583RED19017, 30.05.2019. KONČAR-Electrical Engineering Institute, Laboratory Center	Compliant

Part of documentation	Evidence	Comment
A general description of product	Technical Construction file (25.11.2019)	OK
Drawings and schemes	Technical Construction file (25.11.2019)	OK
List of critical components	Technical Construction file (25.11.2019)	OK
Installation manual	Technical Construction file (25.11.2019)	OK
Software version(s)	PD2E (Power Drive 2 Enclosure): HW: RASPBERRY_SHIELD SW: Power_Drive PD2C (Power Drive 2 DIN Rail): HW: RASPBERRY_SHIELD SW: Power_Drive PD2ER (Power Drive 2 Enclosure 433): HW: RASPBERRY_SHIELD_433 SW: Power_Drive PD2CR (Power Drive 2 DIN Rail 433): HW: RASPBERRY_SHIELD_433 SW: Power_Drive LC1W (1 channel light controller): HW: PS_W_1CH_R SW: Power_Switch SW1W (1 channel power switch controller): HW: PS_W_1CH_R SW: Power_Switch LC2W (2 channel light controller): HW: PS_W_2CH_R SW: Power_Switch SH1W (1 channel shutter controller): HW: PS_W_2CH_R SW: Shutter LC4C (4 channel light controller): HW: PS_C_4CH_R SW: Power_Switch SW4CP (4 channel power switch controller): HW: PS_C_4CH_R SW: Power_Switch SH2C (2 channel shutter controller): HW: PS_C_4CH_R SW: Shutter SW4C (4 channel switch controller): HW: LS_C_4CH_R SW: Logic_Switch SW2C (2 channel switch controller): HW: LS_C_4CH_R SW: Logic_Switch SHBC (2 channel logic shutter controller): HW: LS_C_4CH_R SW: Logic_Switch GC1C (1 channel gate controller): HW: LS_C_4CH_R SW: Logic_Switch GC2C (2 channel gate controller): HW: LS_C_4CH_R SW: Logic_Switch EL4C (4 channel elevator controller): HW: LS_C_4CH_R SW: Logic_Switch AL1C (1 channel alarm controller): HW: LS_C_4CH_R SW: Logic_Switch WV1C (1 channel water valve controller): HW: LS_C_4CH_R SW: Logic_Switch WV4C (4 channel water valve controller): HW: LS_C_4CH_R SW: Logic_Switch LC2CY (2 channel LED controller): HW: LS_C_4CH_T SW: LED_Driver LC4CZ (4 channel LED controller): HW: LS_C_4CH_T SW: LED_Driver LC1CX (1 channel RGB LED controller): HW: LS_C_4CH_T SW: LED_Driver WS9B (9 wall switch): HW: WS_W_9CH SW: Wall Switch	OK

Place and date: Croatia, Zagreb, 04.12.2019.

Assessor: Saša Gros, B.Sc.E.E.

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ZAGREB 12