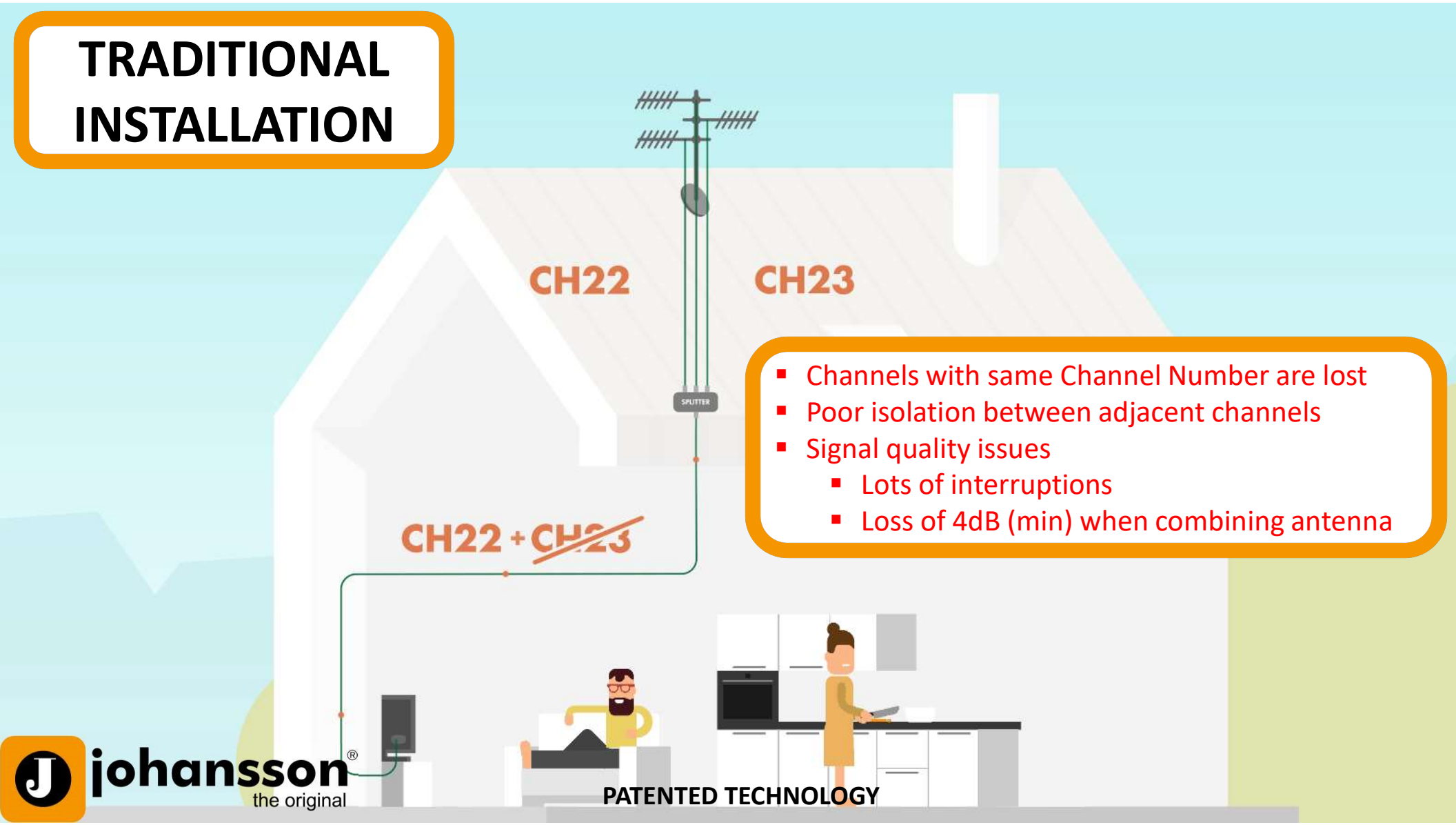
SMARTAMP
UNITRON
GROUP

SMARTAMP
PRODUCT INTRODUCTION

TRADITIONAL INSTALLATION



- Channels with same Channel Number are lost
- Poor isolation between adjacent channels
- Signal quality issues
  - Lots of interruptions
  - Loss of 4dB (min) when combining antenna

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SMART AMP INSTALLATION

Combining 2, 3 or 4 antenna for full HDTV reception has never been so easy

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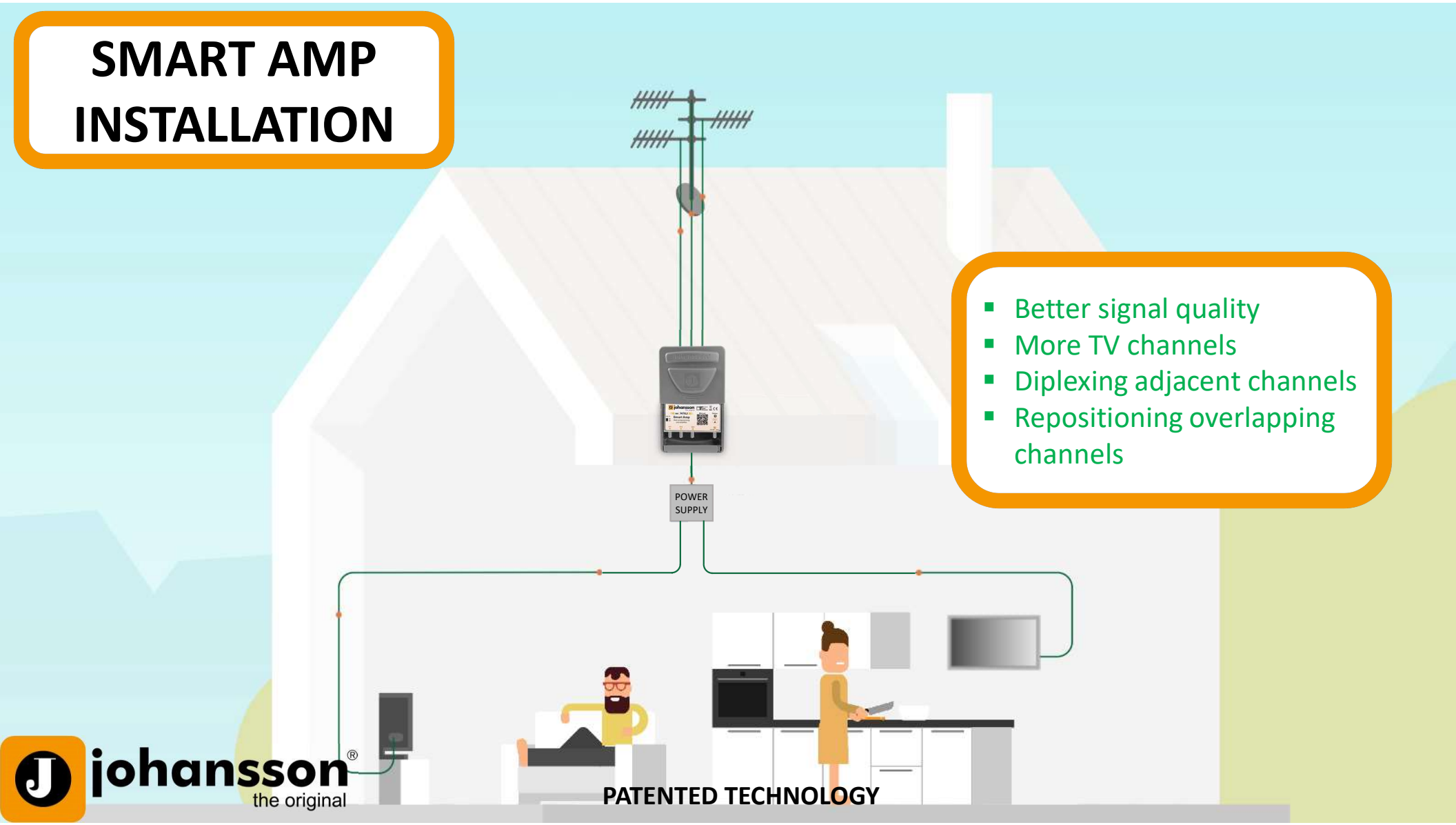
SMART AMP INSTALLATION



- Better signal quality
- More TV channels
- Diplexing adjacent channels
- Repositioning overlapping channels

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HOW IT WORKS

- Autoscan
- 360° OTA reception
- DVB-T/T2 ATSC ISDB-T
- 4G/5G resillient

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SMARTAMP
PRODUCT SPECIFICATIONS

4 MODELS

7473L1

3 INPUTS

4G

7473L2

3 INPUTS

5G

7474L1

4 INPUTS

4G

7474L2

4 INPUTS

5G

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FEATURES

- Scans all channels, amplifies the weak signals while keeping the strong channels
- All output channels have an equal and stable output power
- Treats even the most difficult situations with adjacent channels
- Channels with the same frequency can be amplified in and re-located to the LTE band (switchable feature)
- Fully automatic channel scan and process function upon start-up

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FEATURES

- Fully automatic recognition of the applied country channel plan
- SAW filters for LTE (4G or 5G) rejection on all inputs
- Outdoor weatherproof mast-head housing
- DC Power over coax
- All ports ESD protected

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SPECS

Parameter	Unit	KIT7473L1	KIT7474L1	KIT7473L2	KIT7474L2
Inputs	-	3	4	3	4
LTE rejection	-	4G (>CH60)	4G (>CH60)	5G (>CH48)	5G (>CH48)
Channel plan	-	VHF BIII + UHF Automatic channel plan selection			
LTE band rejection	dB	>40			
Output	-	1			
Output Power	dBµV	85			
Frequency range	MHz	174 - 862			
LTE band Re-use	-	L1 = CH61-69 (790MHz-862MHz) Switch ON-OFF		L2 = CH49-69 (694MHz-862MHz) Switch ON-OFF	
Adjacent channel isolation	dB	>35			
Input sensitivity	dBµV	minimum 40			
Power	-	12V/300mA (DC over coax) (350mA - 4 in)			
Power Supply	-	External power supply (ref. 2437 - 2 out)			
Dimensions	mm	120 x 115 x 50			
Operating temperature	°C	-20 to +50			

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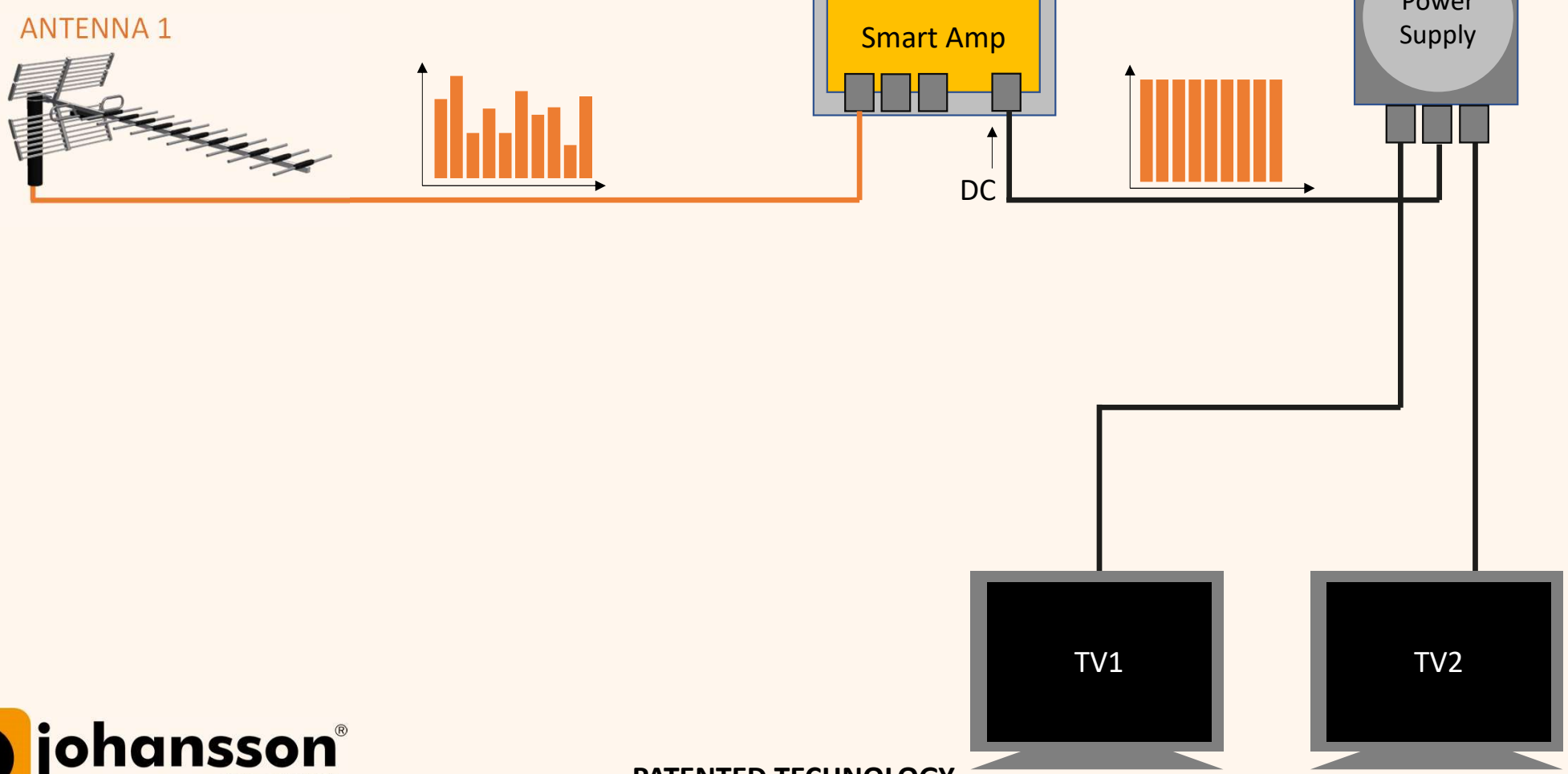
PRODUCT INSTALLATION

1 ANTENNA



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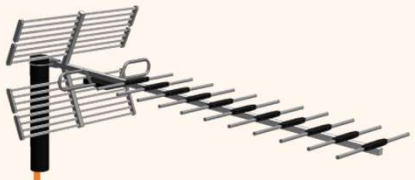
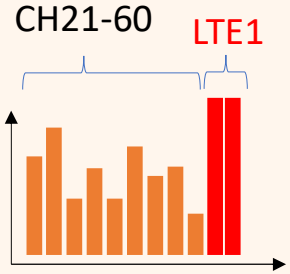
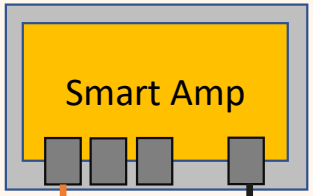
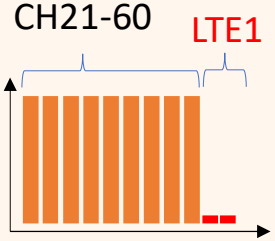
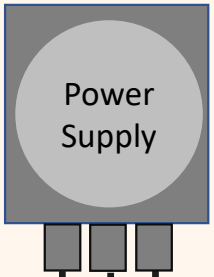
LTE1











DC

LTE1 = LTE800 = 4G
Everything above
790MHz is filtered out

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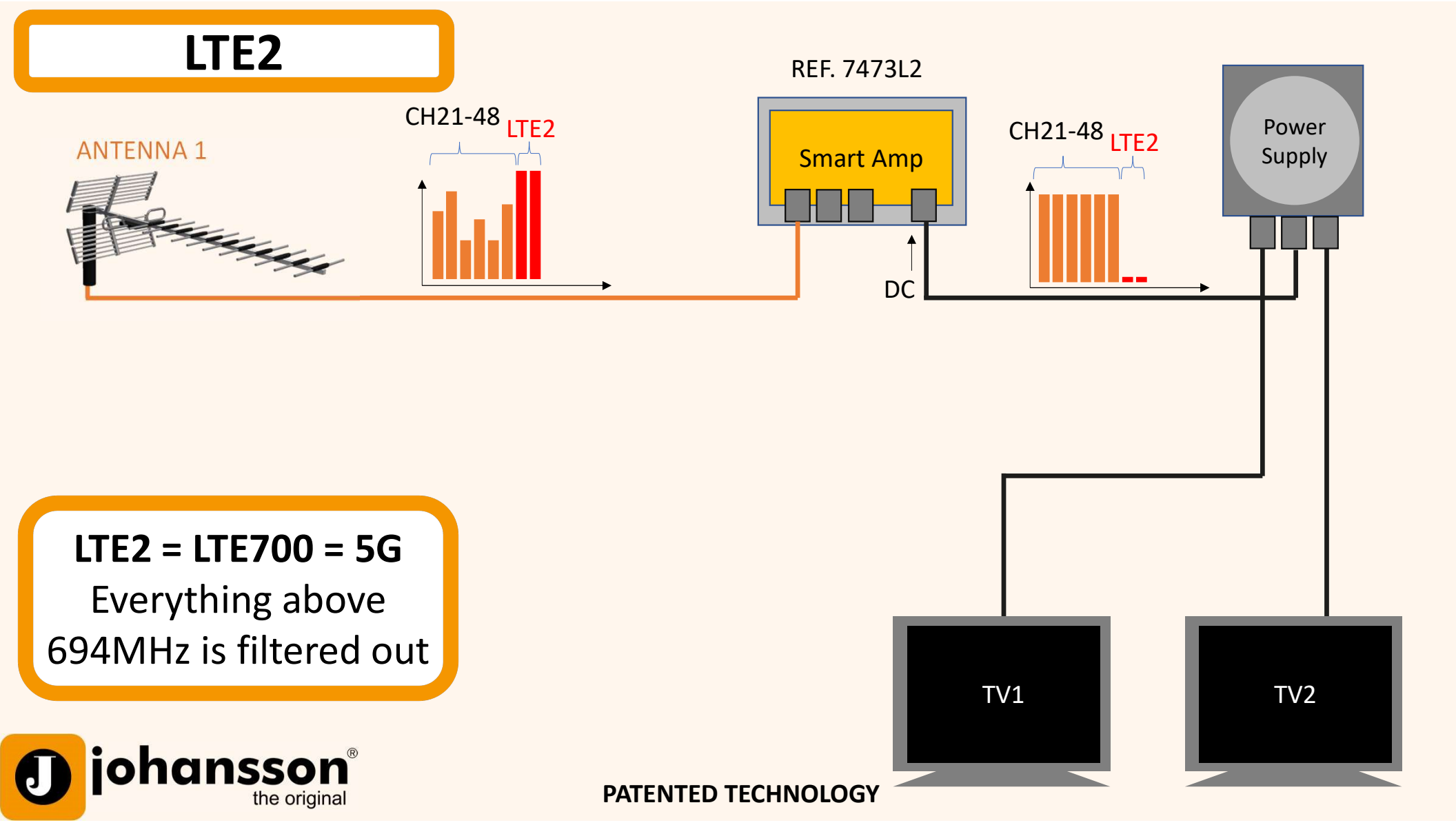
LTE2



LTE2 = LTE700 = 5G
Everything above 694MHz is filtered out

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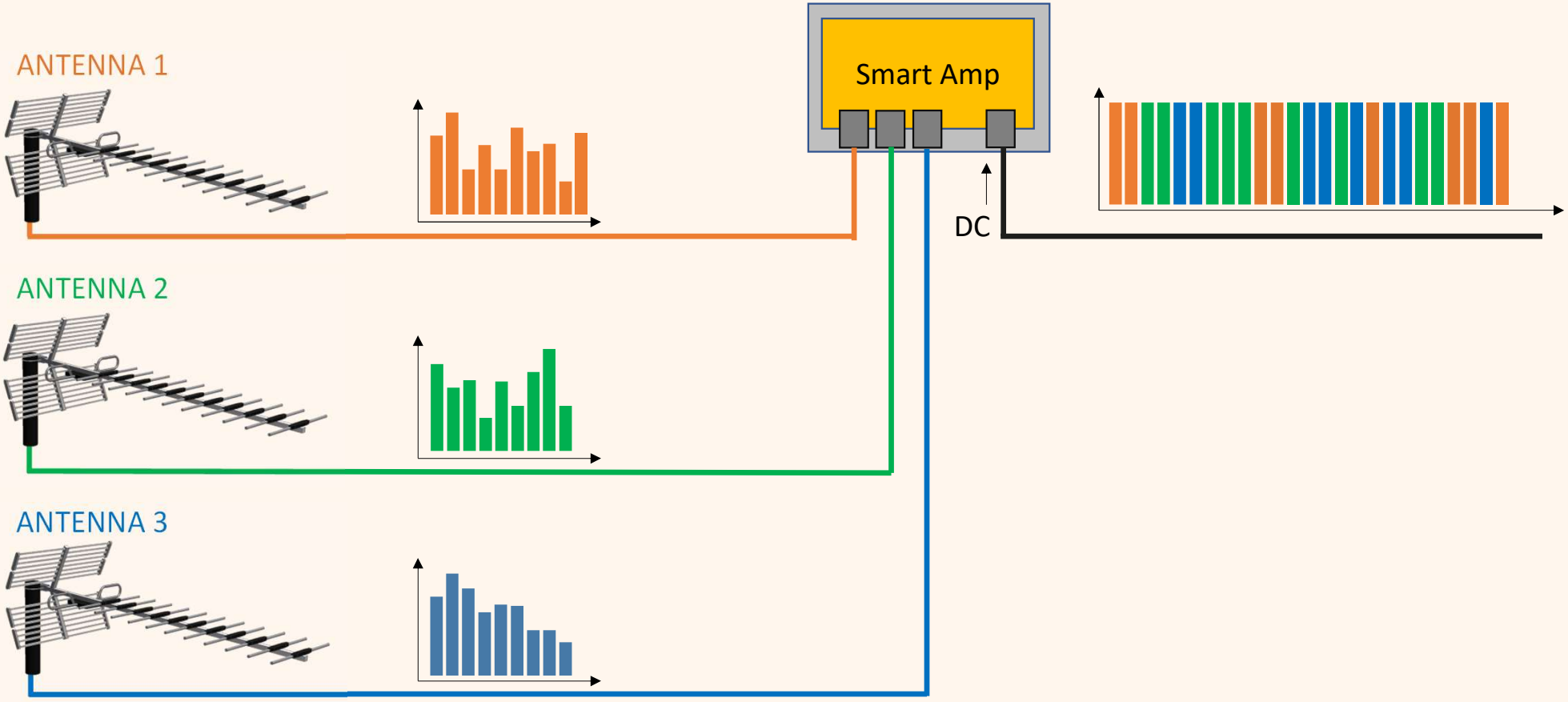
3 ANTENNA



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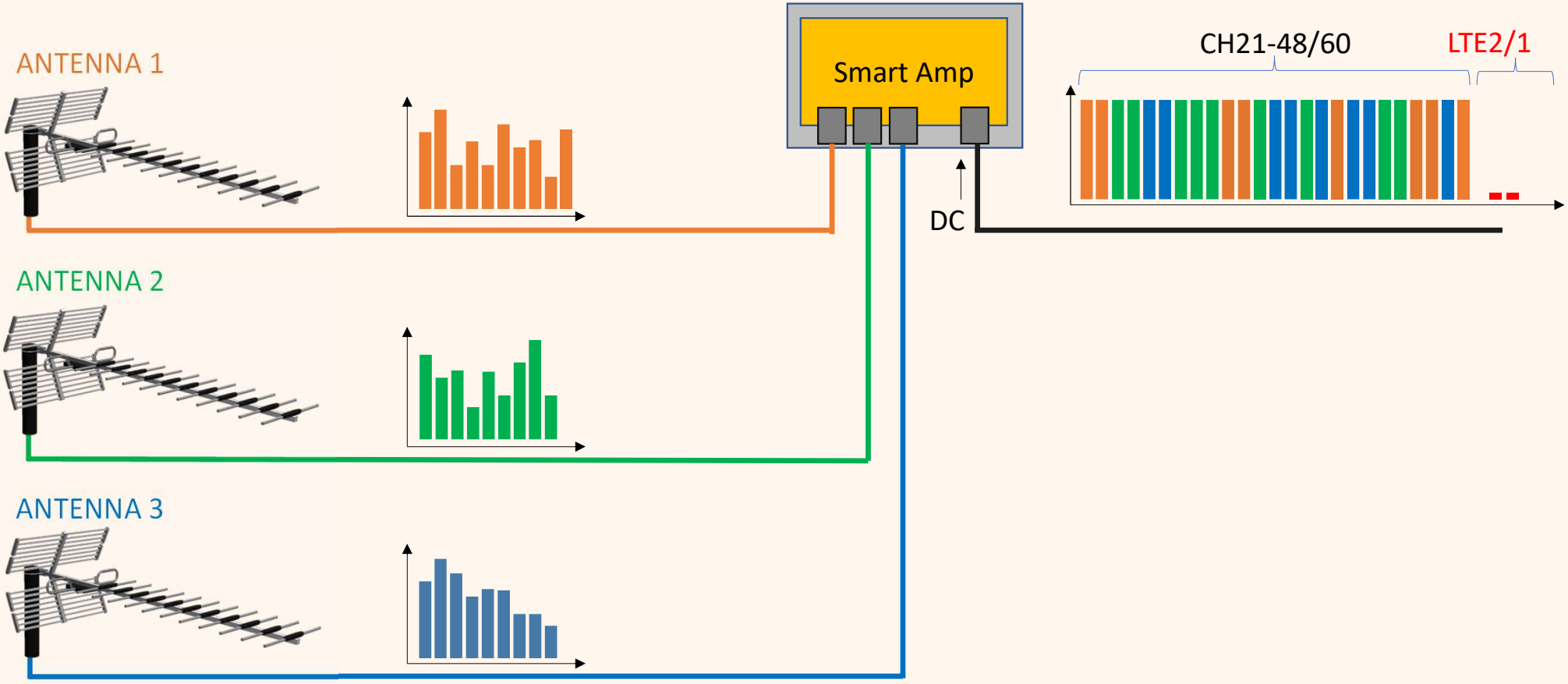
3 ANTENNA



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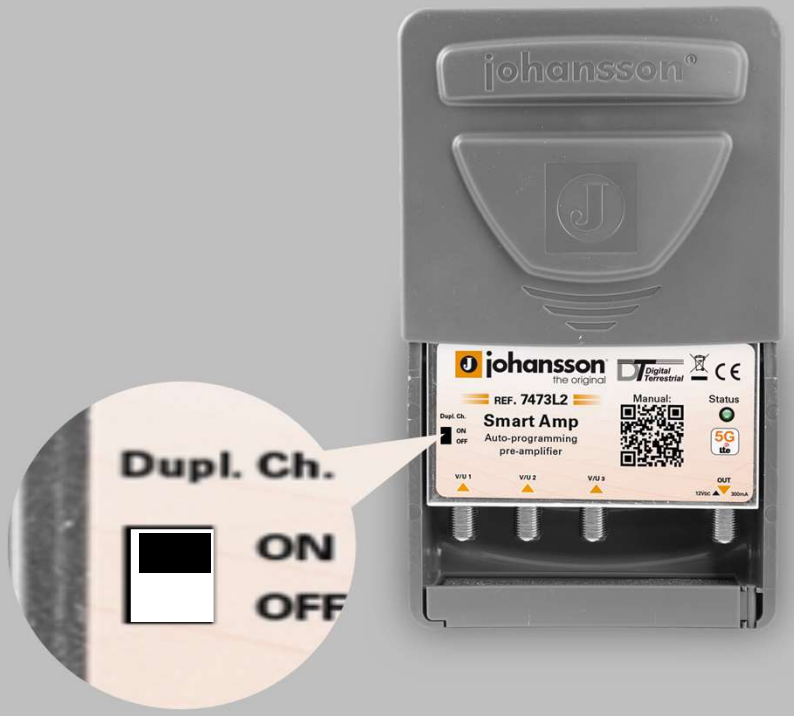
CONVERSION ON

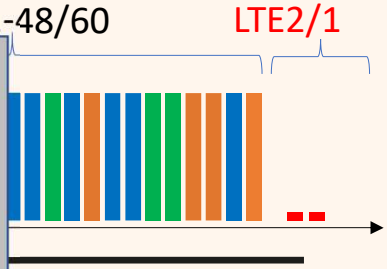
ANTENNA 1

ANTENNA 2

ANTENNA 3

Duplicate channel feature ON





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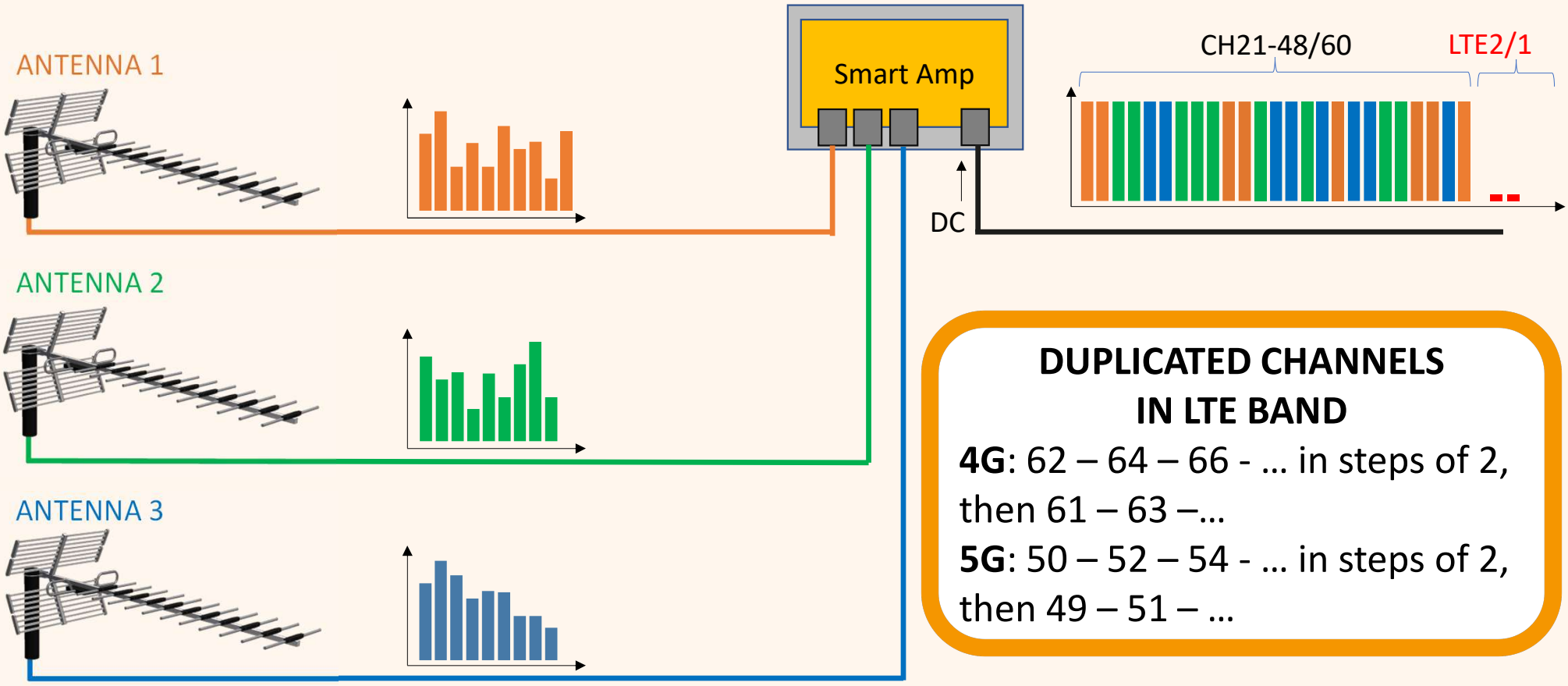
CONVERSION ON



DUPLICATED CHANNELS IN LTE BAND

4G: 62 – 64 – 66 - … in steps of 2, then 61 – 63 –…

5G: 50 – 52 – 54 - … in steps of 2, then 49 – 51 – …

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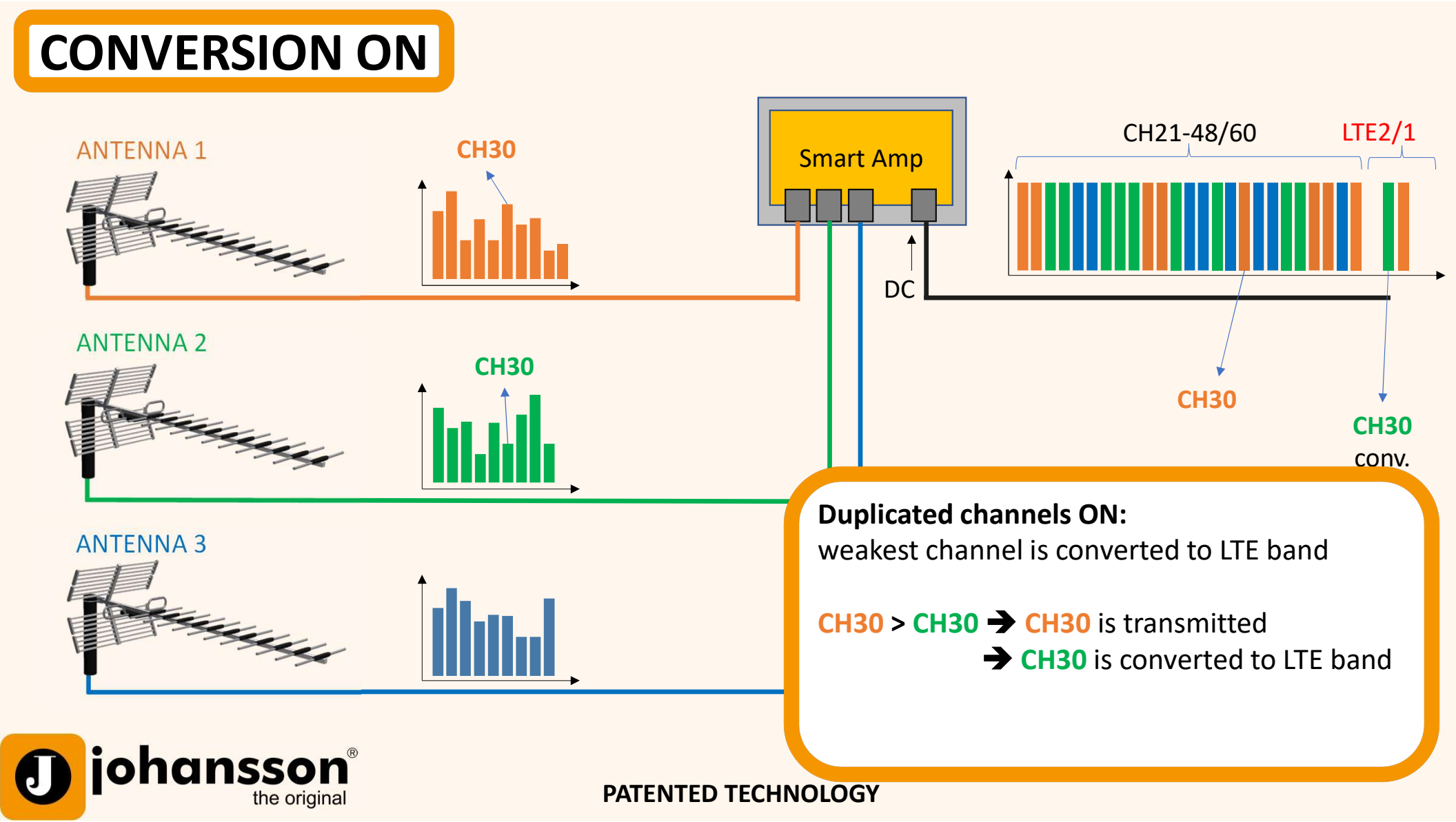
CONVERSION ON



Duplicated channels ON:
weakest channel is converted to LTE band

CH30 > **CH30** ➔ **CH30** is transmitted
➔ **CH30** is converted to LTE band

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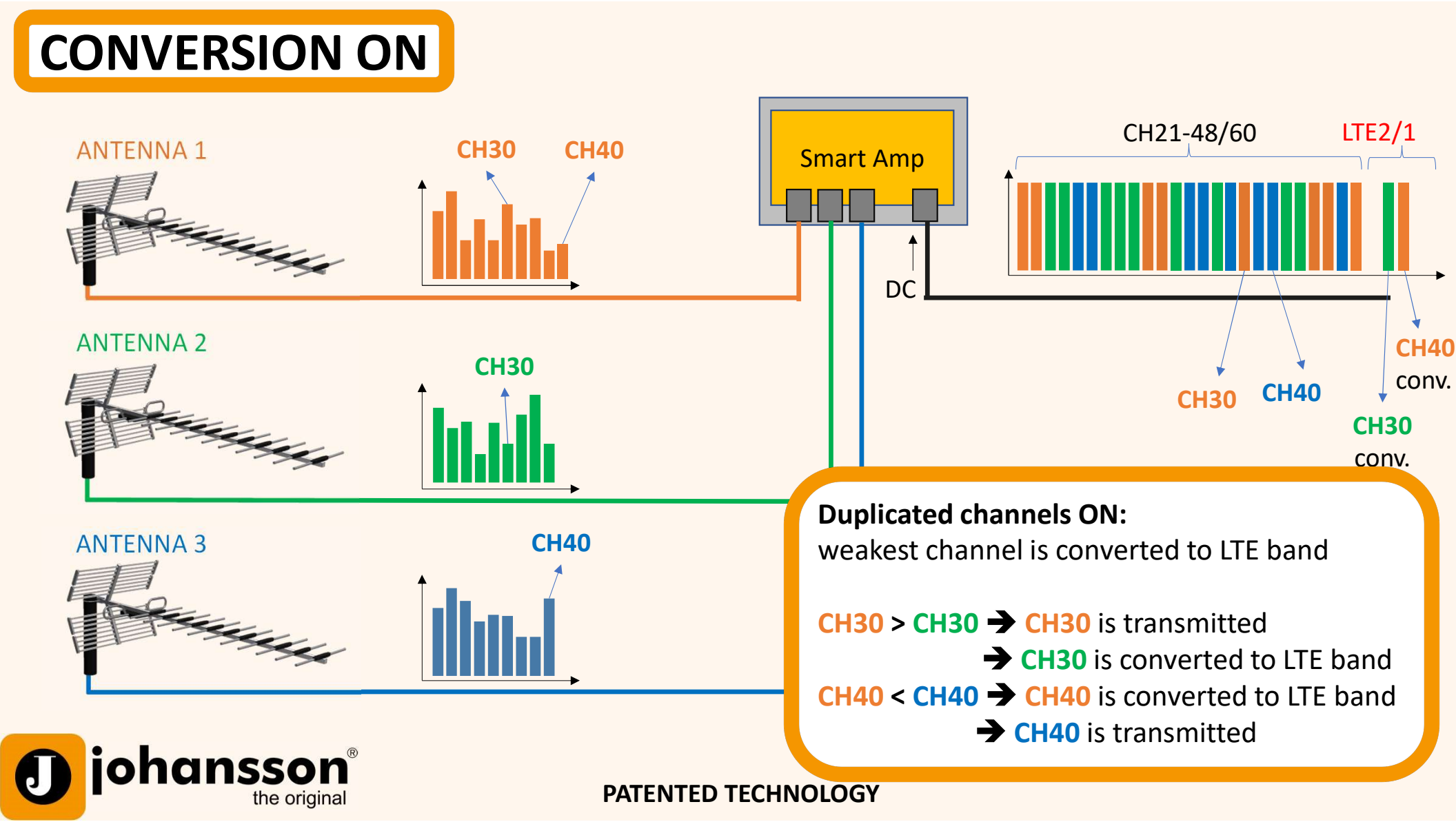
CONVERSION ON



Duplicated channels ON:
weakest channel is converted to LTE band

CH30 > CH30 ➔ CH30 is transmitted
➔ CH30 is converted to LTE band
CH40 < CH40 ➔ CH40 is converted to LTE band
➔ CH40 is transmitted

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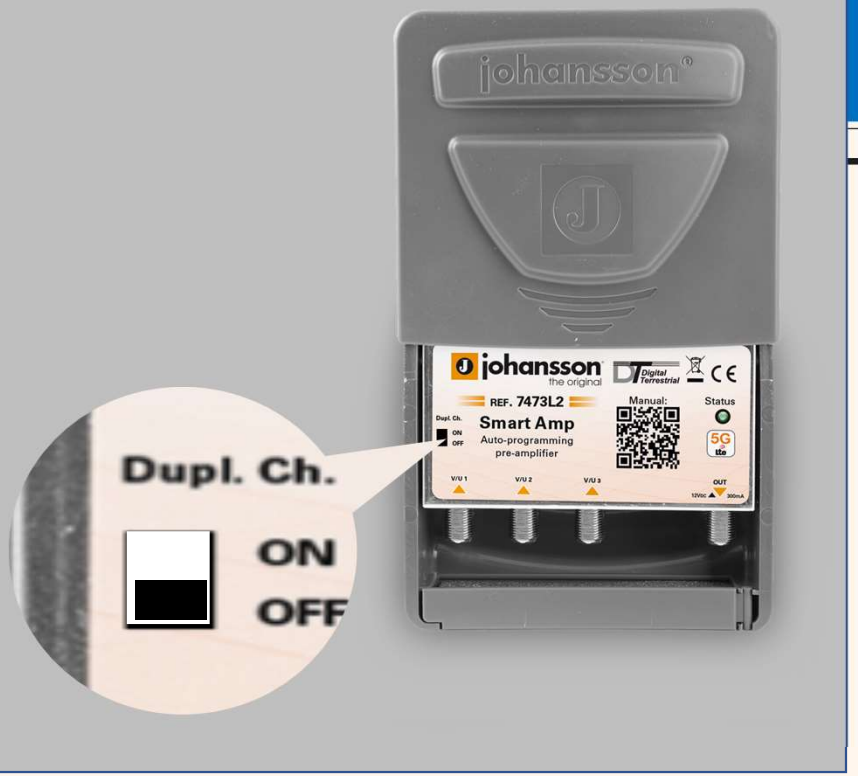
CONVERSION OFF

ANTENNA 1

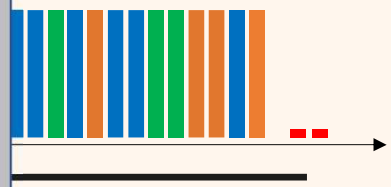
ANTENNA 2

ANTENNA 3

Duplicate channel feature OFF



CH21-48/60 LTE2/1



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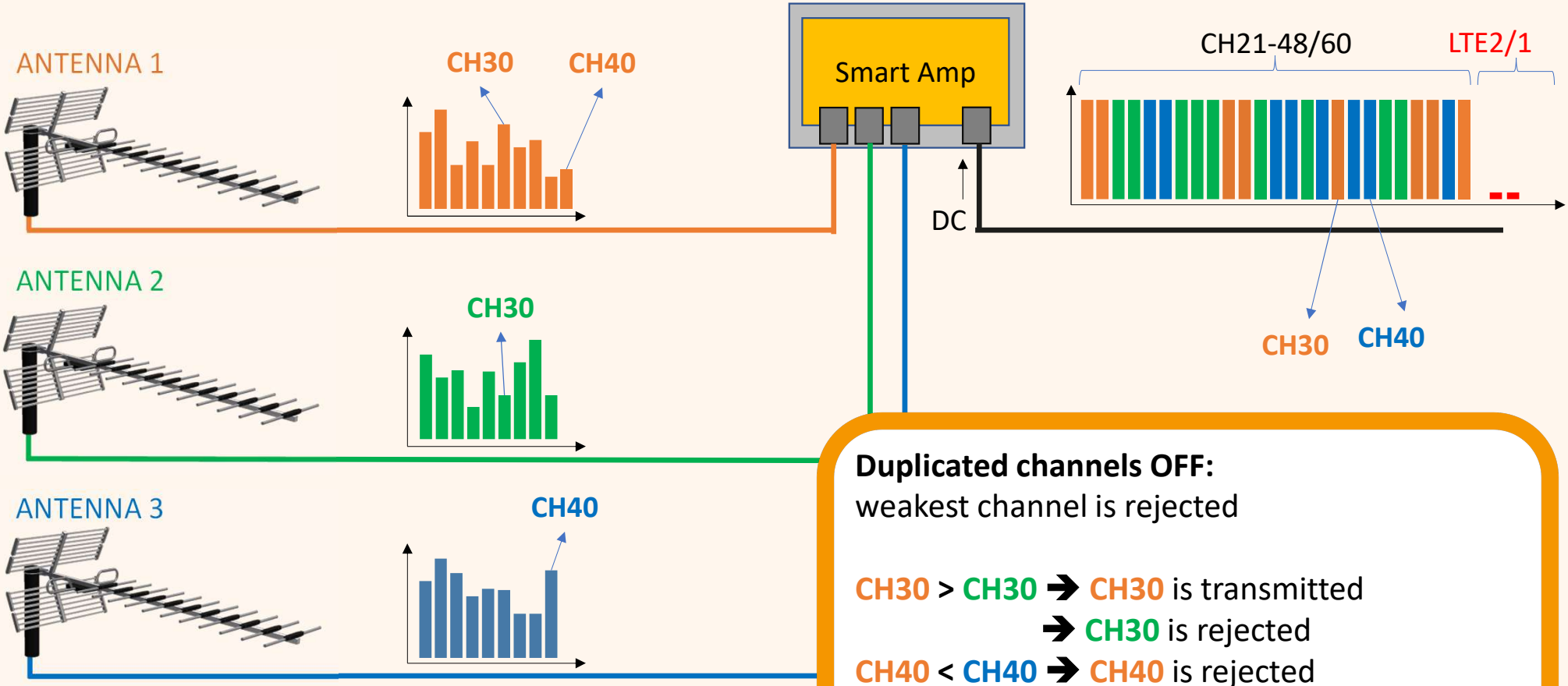
CONVERSION OFF



Duplicated channels OFF:
weakest channel is rejected

CH30 > **CH30** ➔ **CH30** is transmitted
➔ **CH30** is rejected
CH40 < **CH40** ➔ **CH40** is rejected
➔ **CH40** is transmitted

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AUTOSCAN

PLUG-AND-PLAY

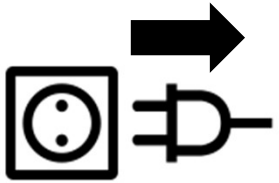
Plug in Power Supply

Status LED will blink when scanning

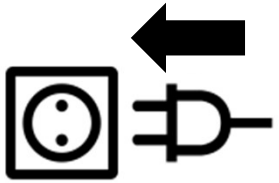
Status LED solid when autoscan ready
This can take up to 20 seconds

FORCE CHANNEL SCAN
= RESET = REPROGRAM

Unpower



Repower within 4 sec



Status LED will blink when scanning

If power interruption (>4 sec)
= no reprogram = settings are kept

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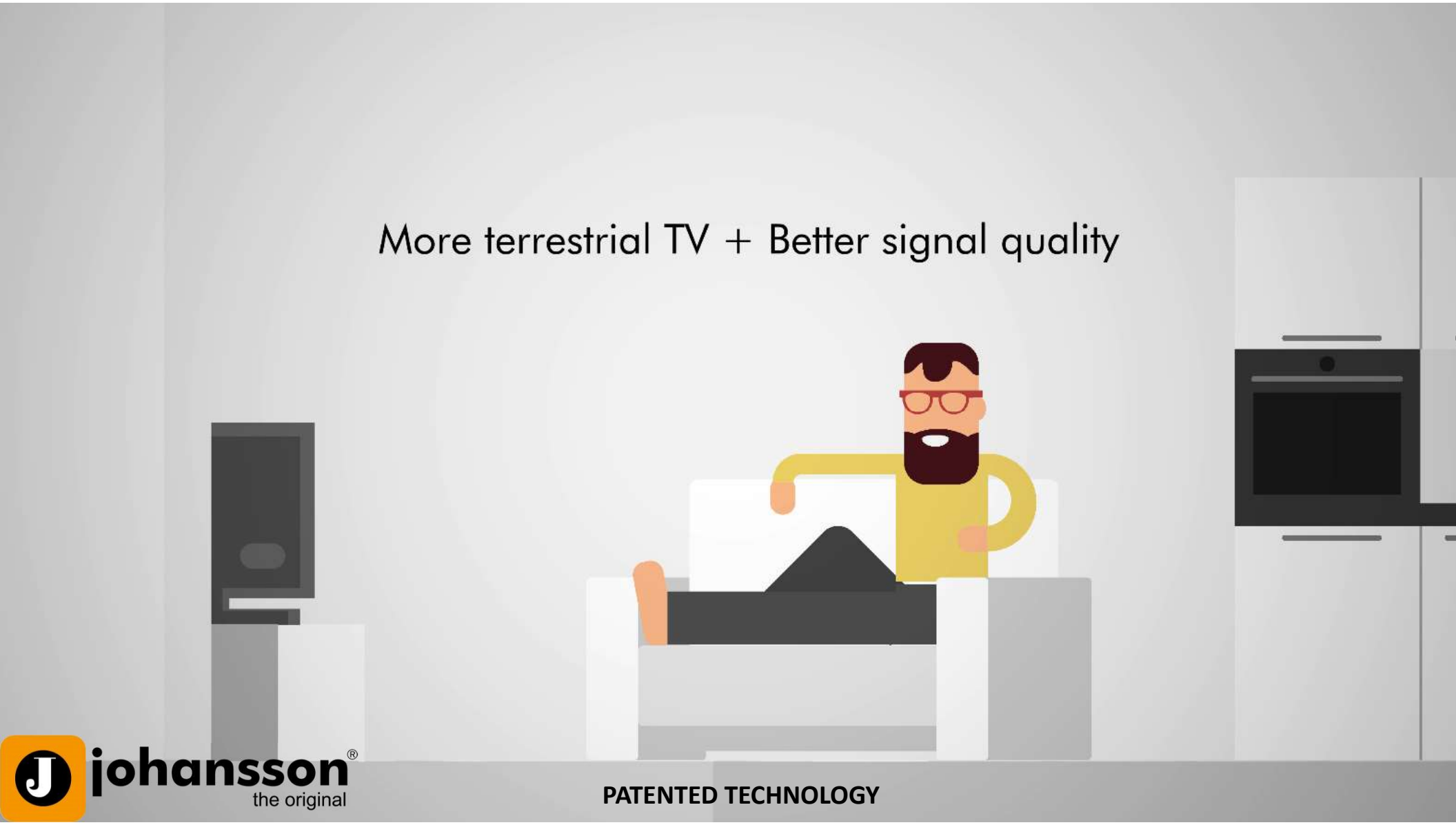
CONCLUSIONS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