

# DSP15-5G V2

## Programmable TV terrestrial multiband amplifier

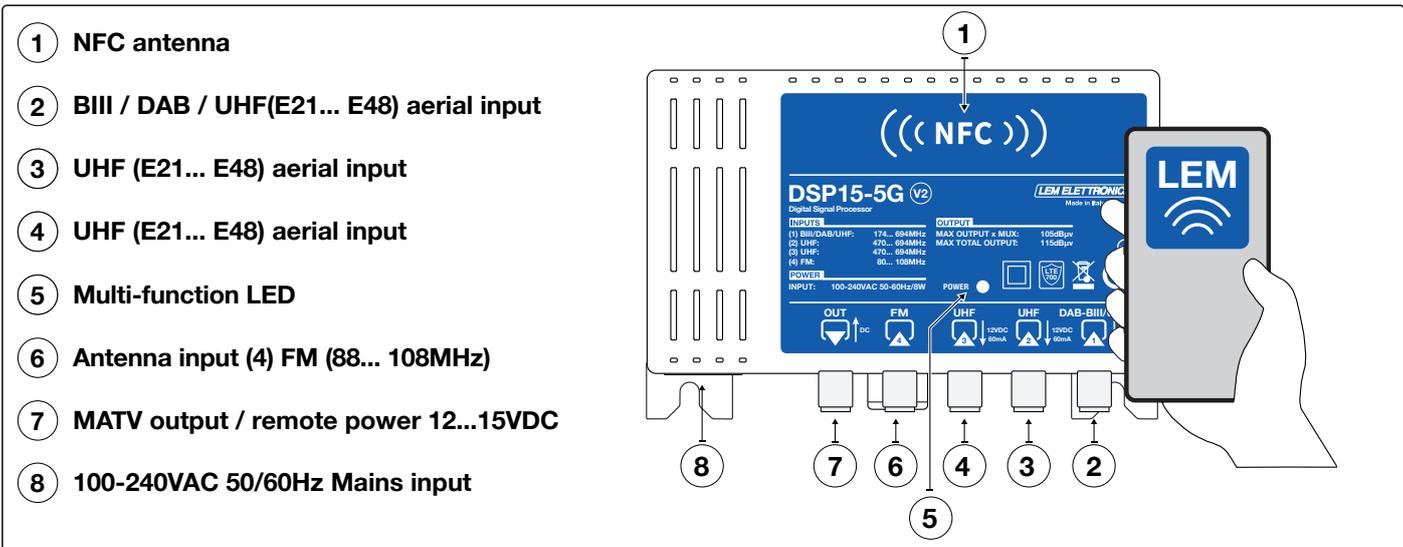
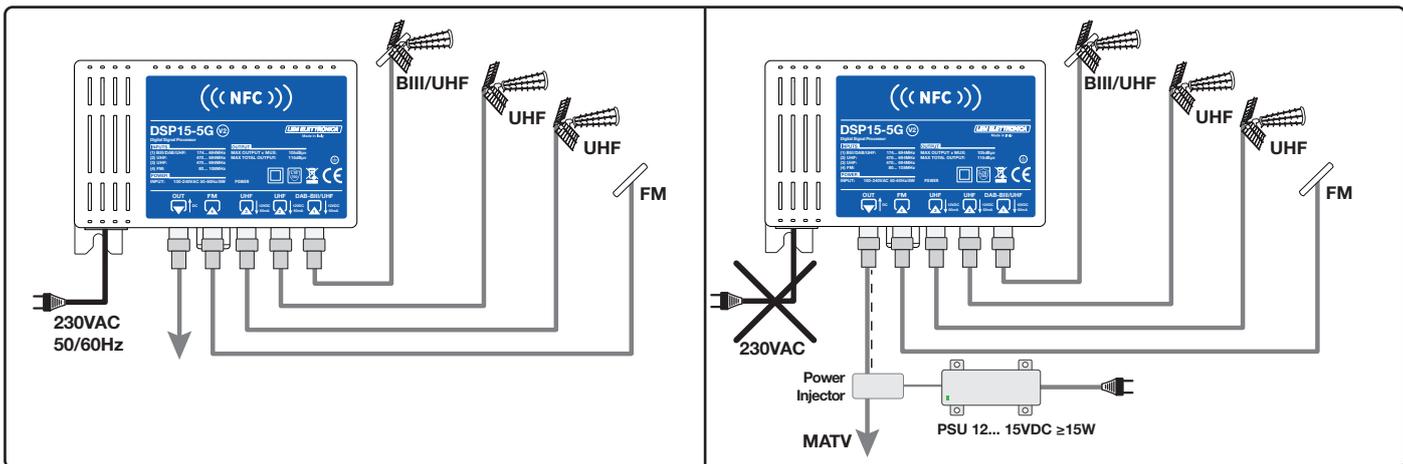
### Installation and start-up

- 1 Connect an earth wire to grounding clamp
- 2 Connect the TV aerial(s) to the amplifier's inputs
- 3 Connect the MATV output and terminate the unused inputs with 75Ω loads
- 4 Power up the amplifier connecting the power cord to mains plug

### Antenna remote power error



If **LED POWER** remains fixed red there is an antenna input short circuit or over current. Please check the input(s) with the remote power supply activated and remove the issue.



### Installation and safety instructions

- Do not use this product for uses that are different from those for which it has been designed.
- The product must not come into contact with water or be wetted by liquids.
- To avoid the risk of fire or electrocution, do not expose the product to rain or moisture.
- When installing in a cabinet or recessed compartment, provide adequate ventilation.
- Do not use the product at environmental temperatures more than 40°C.
- Do not touch the appliance with wet or humid parts of the body.
- After removing the product from its packaging ensure that it is complete and undamaged; if in doubt, contact (authorised dealer or manufacturer) immediately.
- Prepare the connection to the power supply in accordance with the regulations in force in the country of installation and in such a way that it can be easily disconnected.
- Immediately contact a qualified person (authorised dealer or the manufacturer) if the product is dropped or knocked to check its correct functioning.
- The product can be connected to the supply mains only if the voltage and the frequency of the supply mains correspond to those indicated on the data table.
- To avoid the risk of fire do not using the product in the presence of inflammable substances and vapours, such as alcohol, insecticides, petrol, ect..
- In the event of a fault, do not attempt to repair the product as this will invalidate the warranty.

### Description of symbols and electrical safety



The equipment complies with the CE requirements



The equipment is compliant with RoHS 2011/65/EU



Equipment grounding terminal



Dispose according to local authorities recycling processes

## Programming

To program a **DSP15-5G** a smartphone supporting **NFC** technology is required.

NFC (Near Field Communication) communication standard allows the bidirectional contactless communication between two devices.

### Minimum requirements for Smart Phone Apple

iOS 13  
iPhone 7

Download the App **LEM NFC** from Apple Store or scan the QR code with the smartphone



LEM NFC for iOS



### Minimum requirements for Smart Phone Android

Android 5  
Android 11 Recommended

Download the App **LEM NFC** from Google Play or scan the QR code with the smartphone



LEM NFC for Android

## Write a configuration from smart phone to DSP15-5G

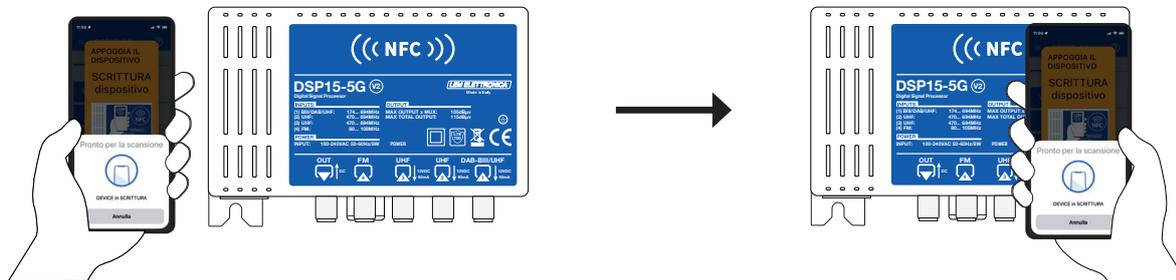
- 1\_Launch the application **LEM NFC** and select the amplifier model
- 2\_Setup all the appropriate parameters and settings
- 3\_Press **WRITE**  and place the smartphone over the NFC antenna icon keeping it still until the transmission ends (about 5 sec.)

**Android smartphones need NFC enabled**

## Read a configuration from DSP15-5G to smart phone

- 1\_Launch the application **LEM NFC** and select the amplifier model
- 2\_Press **READ**  and place the smartphone over the NFC antenna icon keeping it still until the transmission ends (about 1 sec.)

**Reading is possible even with the DSP15-5G turned off**



## Technical specifications

NUMBER OF INPUTS		1xFM / 1xDAB/BIII/UHF / 2xUHF
INPUTS FREQUENCY RANGE	MHz	FM (80... 108) - BIII (170... 230)/DAB (170... 240) - UHF (470... 694)
LTE PROTECTION		LTE 700
SINGLE CHANNEL FILTERS		32
NUMBER OF CHANNEL PER FILTERS		1 / 2 (selectable)
COMMUNICATION STANDARD		NFC (Near Field Communication)
INPUT LEVEL RANGE	dB $\mu$ V	FM 35... 90 - BIII/DAB 45... 100 - UHF 45... 90
BIII/DAB/UHF INPUT PRE-AMPLIFIER	dB	OFF= 0 / ON= +16
BIII/DAB - UHF INPUTS A.C.G. RANGE	dB	40 dB
DIGITAL FILTERS SELECTIVITY	dB	35 @1MHz
FM GAIN	dB	-10/+15
BIII/DAB GAIN	dB	40... 50
UHF GAIN	dB	60
TOTAL OUTPUT LEVEL RANGE	dB $\mu$ V	85... 105
ADJUSTABLE SLOPE	dB	0... +5
MAX TOTAL OUTPUT LEVEL	dB $\mu$ V	115
OUTPUT LEVEL WITH 6 MUX	dB $\mu$ V	105
RETURN LOSS IN/OUT	dB	>10
AERIAL INPUTS REMOTE POWERING		12V/ 60mA
INPUT VOLTAGE		100-240VAC 50/60Hz
MAXIMUM CONSUMPTION	W	8
OPERATING TEMPERATURE	$^{\circ}$ C	-15... 40
DIMENSIONS	mm	135 x 91 x 44

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