MSP3-5G

**Programmable TV terrestrial mast multiband amplifier
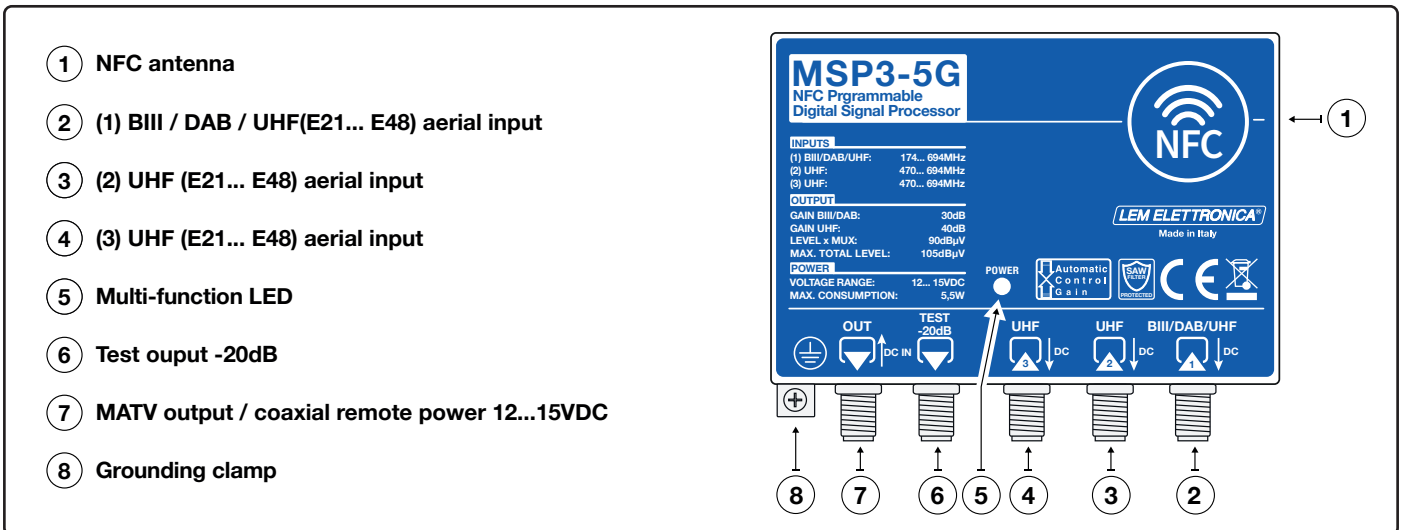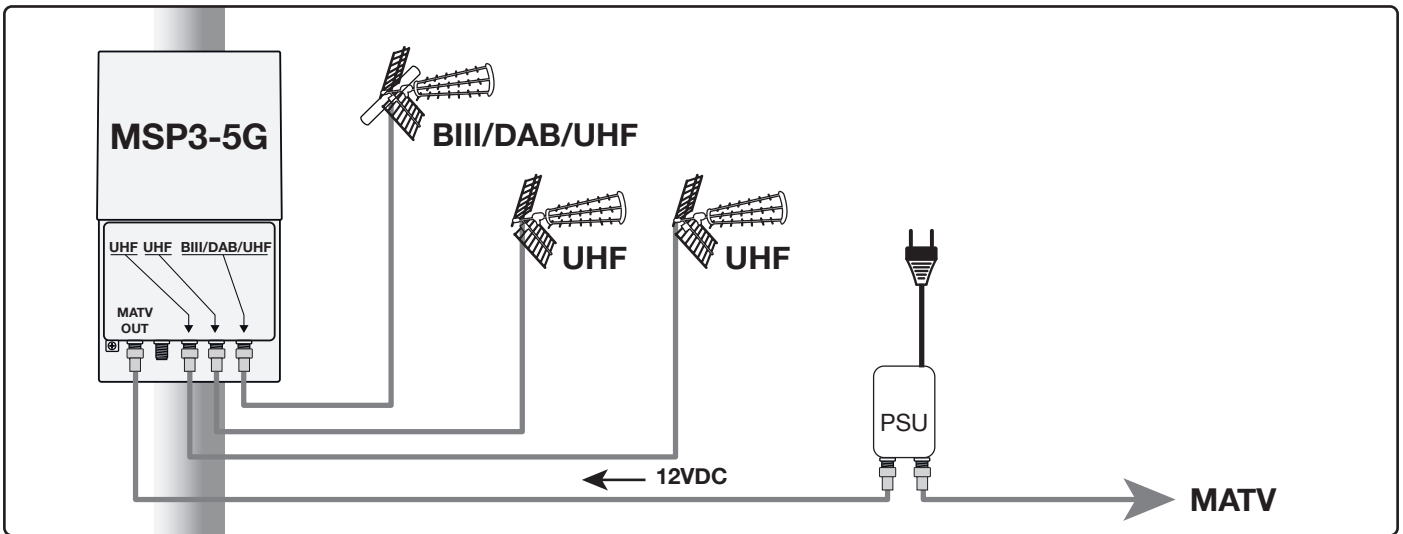with Apple or Android smartphones**

Installation and start-up

1 Connect the TV aerial(s) to the amplifier's inputs

2 Connect the MATV output

3 Power up the amplifier connecting to MATV output a proper coaxial power supply

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.

①	**NFC antenna**
②	**(1) BIII / DAB / UHF(E21... E48) aerial input**
③	**(2) UHF (E21... E48) aerial input**
④	**(3) UHF (E21... E48) aerial input**
⑤	**Multi-function LED**
⑥	**Test ouput -20dB**
⑦	**MATV output / coaxial remote power 12...15VDC**
⑧	**Grounding clamp**

SAFETY INSTRUCTIONS

1. Ambient temperature should not be higher than 45° C.

2. Install and fix safely the unit on a vertical wall or mast with its own rainproof case

3. Connect the power adapter cord to a detachable power supply socket.

4. Do not place the equipment in a place where it can suffer vibrations or shocks.

5. Only use attachments/accessories specified by the manufacturer.

DESCRIPTION OF SYMBOLS AND ELECTRICAL SAFETY

CE The equipment complies with the CE requirements

RoHS 2011/65 EU The equipment is compliant with RoHS 2011/65EU

Equipment grounding terminal

Dispose according to local authorities recycling processes

Programming

To program a **MSP3-5G** 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	**LEM NFC**	**Minimum requirements for Smart Phone Android** Android 5 Android 11 Recommended
Download the App **LEM NFC** from Apple Store or scan the QR code with the smartphone		Download the App **LEM NFC** from Google Play or scan the QR code with the smartphone

LEM NFC for iOS

LEM NFC for Android

Write a configuration from smart phone to MSP3-5G

Android smartphones need NFC enabled

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 1 sec.)

Read a configuration from MSP3-5G 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.)
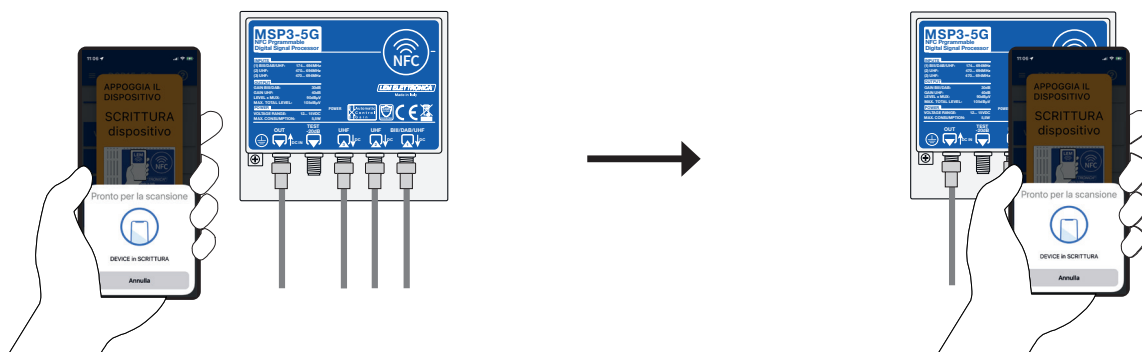
Technical specifications

NUMBER OF INPUTS	3	1xDAB/BIII/UHF (170... 240 / 470... 694) MHz / 2xUHF (470... 694) MHz
LTE PROTECTION		LTE 700
SINGLE CHANNEL FILTERS		32
NUMBER OF CHANNEL PER FILTERS		1... 2
COMMUNICATION STANDARD		NFC (Near Field Communication)
INPUT LEVEL RANGE	dBµV	50... 100
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
BIII/DAB GAIN	dB	40... 50
UHF GAIN	dB	50
OUTPUT LEVEL RANGE	dBµV	70... 90
ADJUSTABLE SLOPE	dB	0... +5
MAX TOTAL OUTPUT LEVEL	dBµV	105 (IM3 DIN 45004B - 60 dBc)
RETURN LOSS IN/OUT	dB	>10
AERIAL INPUTS REMOTE POWERING		12...15VDC / 60mA
INPUT VOLTAGE	V	12... 15VDC
MAXIMUM CONSUMPTION		0,55A @ 12VDC / 6,6W
OPERATING TEMPERATURE	°C	-15... 45
DIMENSIONS	mm	128 x 129 x 52