

**blake UK**

**BLATLA11  
Terrestrial  
Launch Amplifier**



## blake BLATLA11 Terrestrial Launch Amplifier User Guide

[Home](#) » [blake](#) » blake BLATLA11 Terrestrial Launch Amplifier User Guide 

### Contents

- [1 Blake BLATLA11 Terrestrial Launch Amplifier](#)
- [2 Introduction](#)
- [3 Applications](#)
- [4 Safety Instructions](#)
- [5 Technical Specification](#)
- [6 Troubleshooting](#)
- [7 Warranty](#)
- [8 EU Declaration of Conformity](#)
- [9 Documents / Resources](#)
  - [9.1 References](#)
- [10 Related Posts](#)



**Blake BLATLA11 Terrestrial Launch Amplifier**



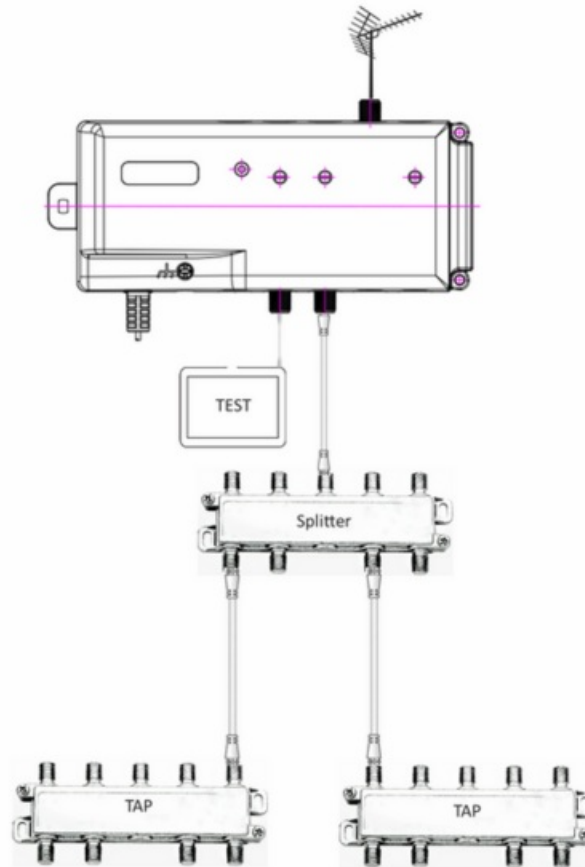
## Introduction

### Product Summary

- The Blake triple-filtered BLATLA11 is a compact and powerful multiband launch amplifier designed for distributing terrestrial television signals in residential and commercial applications such as homes, hotels, and student accommodation environments.
- This low noise 2.5dB (Typical) DVB-T/T2 750 launch amplifier complies with the RED2104/53/EU Class I(L).
- It is an energy-efficient (4.5W) device incorporating sophisticated triple-filtering technology to significantly reduce interference from 4G, 5G, and TETRA signals.

### Features & Benefits

- Compact design and low energy consumption: Ideal for discreet placement and energy efficiency. Optimized for minimal space, while maximizing performance.
- One single input (F-type) is provided for FM/VHF/UHF. The recommended triplexer for this launch amplifier is the 4G, 5G filtered BLACOM31T (available separately)
- Triple Filtering: Eliminates interference from 4G, 5G and TETRA for exceptional signal quality.
- Variable gain control: Optimises signal strength for various cable lengths and signal weaknesses.
- Suitable for digital and analogue signals: Supports traditional and modern digital terrestrial TV signals.
- Powers masthead amplifier: Provides up to 100mA at 12V to power compatible masthead amplifiers such as the BLAMHDIH.
- Dual colour LED indicators: Provides clear visual indication of operational status, green showing normal operation and amber indicating a short circuit or log periodic connected.
- If the LED is amber, the amplifier circuit will continue to function, but no power will be supplied to the masthead amplifier, if in use.
- Consumes low power, making it cost-effective for continuous operation.
- Safe and reliable operation: Complies with the Radio Emissions Directive 2014/53/EU (meets the harmonised standard EN 303 354 for Class I 470-694MHz so no filter is required) and features proper grounding provisions.



## Applications

- Distributing terrestrial TV signals in homes, hotels, and student housing.
- Boosting weak TV signals for improved reception.
- Overcoming signal loss due to long cable runs.

## Tips

- Follow our advice to fully utilize our products:
- **b)** Always use the minimum gain required to avoid signal distortion.
- **b)** Mount the amplifier in a clean, dry, and well-ventilated location as close to the TV aerial as is feasible. Avoid places prone to high humidity, elevated temperatures, or dust accumulation.
- **b)** Properly ground the amplifier using a minimum 4mm<sup>2</sup> earth bonding cable.
- **b)** Use F-connectors designed for standard “100” type coaxial cable.
- **b)** Hand-tighten F-connectors to avoid damaging the unit
- **b)** Utilise the provided screw slots to mount the amplifier securely (screws not supplied)

## Safety Instructions

### Overall safety instructions

- Ensure your amplifier is safe to use by matching the plug to your local outlet, using surge protection, and regularly inspecting the power cord for damage.
- Keep it in well-ventilated areas, secure all connections, protect it from liquids, and allow for cooling after

extended use. Always consult the manual for detailed guidance.

- **Power Safety**

- Ensure the amplifier's plug matches your local outlet type. Never force a plug into an incompatible outlet.

- **Ventilation**

- Keep the vents free of dust buildup. Dust can impede airflow and contribute to overheating.

- **Connections**

- Ensure all cables, including the power cord, antenna connections, and speaker wires, are securely fastened. Loose connections can cause electrical issues and potential fire hazards.

- **Liquids**

- Keep the amplifier away from liquids and moisture. Spills or damp environments can damage the electronics and pose a shock hazard.

## Technical Specification

<b>Frequency Range</b>	<b>FM and DAB</b> (88-108MHz & 170-230MHz) <b>DVB-T/T2</b> (470-694MHz)
<b>Gain</b>	<b>FM &amp; DAB</b> (88-108MHz & 170-230MHz) 10-30dB Variable <b>DVB-T/T2</b> (470-694MHz) 18-38dB Variable
<b>Amplifier Intermodulation:</b>	-2dB (typical)/ -4dB (minimum)
<b>Safety</b>	EN IEC62368-1:2020+A1:2020; EMC: EN 50083-2: 2012 + A1: 2015
<b>Noise Figure</b>	<b>UHF</b> 2.5dB (typical) <b>FM/VHF</b> 5.0dB (typical)
<b>Return Loss (INPUT)</b>	SdB(typical) / 5dB (minimum)
<b>Return Loss (OUTPUT)</b>	10dB(typical) / SdB(minimum)
<b>Power Supply to Masthead Amplifier</b>	12V DC, 100mA on input
<b>Power Consumption</b>	4.5W
<b>Maximum Input Level</b>	85dBuV
<b>Maximum Output Level</b>	118dBuV (IMD3=60dB (DIN45004B))
<b>Power Requirements</b>	230V, 50Hz
<b>Working Environment</b>	-20 — +50°C
<b>Dimensions</b>	185x76x47mm

## Troubleshooting

- **My amplifier is not powering on**

- First, verify that it is powered on and receiving the correct input signal level. Adjust the gain control as specified in the user manual.
- Additionally, confirm that the amplifier is operating within its designated frequency range for best results.

- **I have distorted output**

- Reduce or increase the gain control setting on the amplifier. Then check for excessive input signal overloading the amplifier.

- **I am experiencing overheating issues**

- If the amplifier feels excessively hot, turn it off and let it cool down completely. Ensure proper ventilation around the amplifier.

## Warranty

### Warranty 6 Compliance


### Lifetime Guarantee

- This guarantee covers the failure of your product resulting from manufacturing defects within the lifetime period of this product from the date of supply to the end-user.
- This guarantee does not cover damage to the product caused by abuse, tampering, defective installation, or natural causes such as lightning discharge.
- Repair or attempted repair, other than by the manufacturer, will render this guarantee void.
- This guarantee does not affect a consumer's statutory rights.

## EU Declaration of Conformity

- Blake UK hereby declares that the radio equipment type BLA TLAll is in compliance with Directive 2014/53/EU.
- The full text of the EU declaration of conformity is available at the following internet address: [www.blake-uk.com/DoC](http://www.blake-uk.com/DoC)
- 177-187 Rutland Road, Sheffield, SJ 9PT
- +44 (0)114 275 9729 [sales@blake-uk.com](mailto:sales@blake-uk.com)
- [www.blake-uk.com](http://www.blake-uk.com)

## Documents / Resources

	<p><a href="#">blake BLATLA11 Terrestrial Launch Amplifier</a> [pdf] User Guide BLATLA11 Terrestrial Launch Amplifier, BLATLA11, Terrestrial Launch Amplifier, Launch Amplifier, Amplifier</p>
---	--

## References

- [User Manual](#)

## **Manuals+. Privacy Policy**

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.