

**A2/1+1EIT(F+U)-7**

**A2/1+1ECT(F+U)-7**

**A2/1+1EIT(V+U)-7**

**A2/1+1ECT(V+U)-7**

**A2/1+1EIT(U+U)-7**

**A2/1+1ECT(U+U)-7**

Dear Customer,  
congratulations on the purchase of the EMP-Centauri product. Before its installation and putting into operation, read carefully the entire operation manual. Keep the purchase and rework (if any) records for future need.

## 1) Field of Application, Warranty

The product is designed for the distribution of terrestrial TV and radio signals, particularly to amplify received signals, especially in case of long coaxial cables.

The manufacturer provides for E.LITE CLASS products extended 4 (four) years warranty from the date of purchase, see details in EMP-Centauri's General trade conditions, published at manufacturer's website [www.emp-centauri.cz](http://www.emp-centauri.cz).

It is prohibited to dismantle the product and make any interventions in it. Repairs or any interventions in the product may be performed only by EMP-Centauri company, or other companies authorized by EMP-Centauri.

## 2) Technical Specifications

Products are amplifiers with high sloped gain and with high output power. Product variants offer inputs for various terrestrial bands (VHF, FM, UHF), main signal output a test output for measuring purposes. Input "UHF 2" provides supply for antenna pre-amplifier, the supply is short-circuit protected.

The amplifiers are powered from internal power supply (models A2/1+1EITxxx-7) or remotely through output coaxial cable (models A2/1+1ECTxxx-7).

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Inputs / Outputs	2 / 2 (main signal output + test output)	
Frequency Range, according to variant	F+U: FM (88–108 MHz), UHF (470–862 MHz) V+U: VHF (47–68 MHz + 174–230 MHz), UHF (470–862 MHz) U+U: UHF (470–862 MHz)	
Maximum Gain , according to variant (avg)	F+U: FM 27 dB, UHF 33–38 dB V+U: 25 dB (47–68MHz), 28 dB (174–230MHz), UHF 33–38 dB U+U: UHF 33–38 dB	
Maximum Input Level, according to variant* (valid for max. gain)	F+U: FM 83 dBuV, UHF 77–72 dBuV V+U: 85 dBuV (47–68MHz), 82 dBuV (174–230MHz), UHF 77–72 dBuV U+U: UHF 77–72 dBuV	
Max. Output Level*	110 dBuV	

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Voltage at input UHF 2 IN (models "U+U" only)	12 V DC (150 mA max)	5 V DC (150 mA max)
Consumption**	3,2 W (from built-in supply)	140 mA (12 V DC, from coaxial output)
Dimensions (w,d,h)	22.1 x 10.7 x 5.4 cm	12.5 x 10.7 x 4.7 cm
Temperature Range	-25 – +60 °C	

\* according to EN 50083-3/60dB IMA3

\*\* without load at input "UHF 2"

avg – average value, there is tolerance of  $\pm 3$  dB in specified frequency range

### 3) Product Takeover

Make sure that the product is not damaged. In the case of damage or missing accessories please contact your dealer.

### 4) Product Storing and Installation

**We recommend the device to be installed and serviced by the qualified technician.**

The product must not be stored and installed:

- in the place with excessive humidity
- in the place with dropping or splashing water,
- in the place with excessive dust pollution, mechanical vibrations or impacts
- in the place out of temperature limits specified in the section 2) Technical Specifications
- close to heat sources (radiators or air ventilators, direct sunshine etc.)
- in the reach of children

Use the apparatus only in moderate climates (not in tropical climate).

Fix the product firmly on a wall or another hard and inflammable surface with screws and dowels. The product shall be in no case held only by the connected cables.

Further instructions:

- ensure the free space at least 10 cm around the product for the sufficient air circulation
- do not cover the product (with curtains etc.)
- do not place any containers with liquids (vases, glasses etc.) or naked flame sources (lighted candle etc.) on the product or near the product

**The mains socket must be placed near the product, the mains socket and plug must be easily available** (applies only to models A2/1+1EITxxx-7).

### 5) Product Connection

Connect the product in accordance with this manual and valid regulation in you country. Use high quality 75  $\Omega$  coaxial cable designed for satellite reception. The coaxial cables shall not be broken, the minimum bending radius should be 5 cm. Mount the F connectors (screw, crimp or compress type) on the ends of coaxial cables. Connect the F connectors into the F sockets of product and fasten them with an appropriate force.

- Connect inputs\* "FM", "VHF", "UHF 1" a "UHF 2" to relevant antennas or terminate them with 75 Ohm terminators (input "UHF 2" requires DC-blocked termination)

- Connect connector marked with grounding symbol with protective earthing conductor
- Connect output “OUT” with other components of distribution system (terrestrial receiver, wall socket etc.)\*\*
- Connect the mains plug into the mains socket (valid only for devices A2/1+1EITxxx-7)
- Output F socket marked “TEST” serves for connection of measuring devices

\* Actual configuration of inputs depends on particular product’s variant

\*\* Variants A2/1+4ECTxxx-7 are DC supplied via coaxial cable and output “OUT”

**Notice for variants A2/1+1EIT(U+U)-7 & A2/1+1ECT(U+U):** Input “UHF 2” provides voltage for possible antenna amplifier. Connection of passive antenna with DC short circuit is not recommended.

## 6) Product Settings

For all inputs it is possible to change level of signals by means of attenuators in the range of 15 dB; by turning to right stop position the minimum attenuation is set, by turning to left stop position the attenuation is at maximum. Set the attenuators gently, do not try to overturn stop position by force.

## 7) Safety

Due to security reasons the product and wiring in which the product is connected, must be grounded properly. Use the earthing terminal identified with the symbol of grounding to ground the product. Make sure the antennas are grounded properly. Connect all devices to power grid only after all connections are finished and checked. If you have to enter places with a risk of fall, pay attention to your safety.

Never work on the wiring (including terrestrial receivers, TVs) during or before a storm. A lightning stroke into the antenna may cause dangerous overvoltage in the product metallic parts.

The product should be disconnected from the wiring immediately if it gets into contact with liquids (dropping water, spilled drinks etc.).

**Following section applies only to products A2/1+1EITxxx-7:** The product works with the AC voltage, see section 2) Technical Specifications. Make sure, that the local AC voltage corresponds to the operating voltage of product. No objects can be placed on the mains cord for prevent its damage or break. No hot objects should touch the mains cord. While disconnecting the product from power grid, never pull the mains cord but the mains plug to prevent the mains cord damage. Pay attention that the mains plug holds tight in the mains socket. Loose mains plug or mains socket means the danger of fire. Never disassemble the product connected to the power grid, you risk the danger of electrical shock.

## 8) Product Maintenance

Use only dry cloth to clean the product and do not use any liquid agents.

**Following section applies only to product A4/1+1EIT-7:** Always disconnect the product from the power grid and wiring before performing any maintenance of the product. Check the state of power supply and its mains cord periodically. If the mains cord or the mains plug of product is damaged, it must be replaced by manufacturer or qualified technician to prevent any dangerous situation. Let the product serviced if the housing of power supply is damaged. If not used for long time, disconnect the product from the power grid.









## 9) Troubleshooting

Check correct fixing and orientation of all connected antennas. Check the coaxial lines for possible interruptions and short circuits. Broken cables must be replaced, shorts within connectors removed.

Make sure that environment temperature does not exceed limits given in chapter 2) Technical specifications (applies only to A2/1+1EITxxx-7 versions).

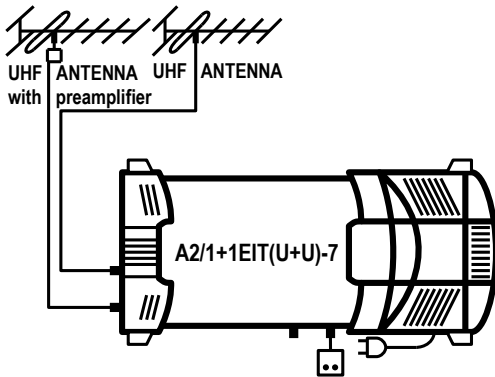
If the failure cannot be removed, please contact your distributor.

## 10) Symbols Explanation

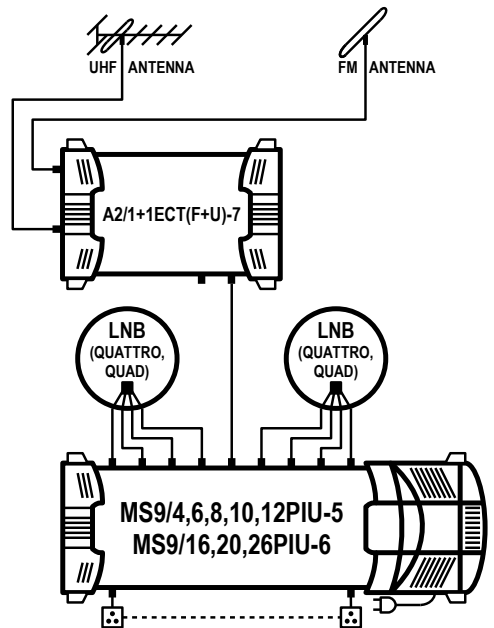
	certificate of conformity		for indoor use only
	DC power supply *		grounding *
	class II device *		fuse protected *
	safety transformer *	* applies only to product A2/1+1EITxxx-7	
	According to EU directive, electric and electronic devices which are identified by one of the following symbols must not be disposed of together with municipal waste. When disposing of the old device, use local waste collection and separation systems.		

## 11) Wiring Diagrams

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More wiring examples are shown at the manufacturer's website.

## 12) Contact

**Manufacturer:** EMP-Centauri s.r.o.  
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