

A9/9EUC-4
A13/13EUC-4
A17/17EUC-4

A9/9EUC12dB-4
A13/13EUC12dB-4
A17/17EUC12dB-4



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 intended for amplification of RF signals in coaxial distribution systems of satellite and terrestrial TV and radio signals. The amplifiers are usually needed in cascade-type of wiring or in case of very long cable runs.

EMP-Centauri's E.LITE CLASS products are covered under 4 (four) years warranty from the date of purchase, see details in document "General trade conditions" published at website www.emp-centauri.cz. The user will be responsible for injury or material damage which may arise in consequence of any product use in contradiction with the manual. 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 A9/9EUC-4, A13/13EUC-4 and A17/17EUC-4 are compact amplifiers with high gain, high output signal level, gain and slope adjustment.

Products A9/9EUC12dB-4, A13/13EUC12dB-4 and A17/17EUC12dB-4 are low-gain version with no adjustment options.

Amplifiers is powered from power supply PA12 2A (included). The voltage appears on every SAT input and can supply the LNB. This voltage also appears on V/H & TERR outputs and can supply other devices in the cascade. All other outputs are DC blocked.

Specifications	A9/9EUC-4	A13/13EUC-4	A17/17EUC-4	A9/9EUC12dB-4	A13/13EUC12dB-4	A17/17EUC12dB-4
Number of Inputs & Outputs	9	13	17	9	13	17
Frequency Range	TERR 47–860 MHz, SAT 950–2150 MHz					
Insertion Gain (avg)	TERR 22 dB, SAT 25 dB			TERR 11 dB, SAT 12 dB		
Gain Control Range (avg)	10 dB avg			—		
Isolation Between Trunks	25 dB min					
Maximum Input Level	TERR 85 dB μ V, SAT 90 dB μ V*			TERR 95 dB μ V, SAT 90 dB μ V		
Maximum Output Level	TERR 107 dB μ V, SAT 115 dB μ V			TERR 106 dB μ V, SAT 102 dB μ V		
Current Consumption (12V DC)	700 mA	1100 mA	1350 mA	380 mA	520 mA	700 mA

Specifications	A9/9 EUC-4	A13/13 EUC-4	A17/17 EUC-4	A9/9EUC 12dB-4	A13/13EUC 12dB-4	A17/17EUC 12dB-4
Dimensions (w,d,h)	18.6 x 14.6 x 5.5 cm					
Temperature Range	-25 – +50 °C					

*Max. input level increases when input attenuator is used. The given value is valid for no attenuation.

3) Product Takeover

Make sure that the product is not damaged. Please contact your dealer in the case of damage.

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

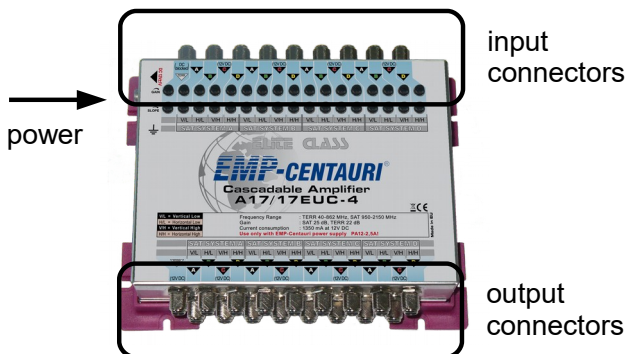
- in the place with excessive humidity
- in the place with excessive dust pollution, mechanical vibrations or impacts
- in the place out of temperature limits specified in the section 2) Technical Specifications
- close to heat sources (radiators or air ventilators, direct sunshine etc.)
- in the reach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

Do not expose the apparatus to dripping or splashing. Use the apparatus only in moderate climates (not in tropical climate).

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.

5) Product Connection

Connect the product in accordance with this manual and valid regulation in your country. Use high quality 75 Ω coaxial cable designed for satellite reception. 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. The coaxial cables shall not be broken, the minimum bending radius should be 5 cm. Where appropriate it is possible to use quick Fm–Fm adaptors instead of cables.



- Connect input connectors marked “TERR”, “A”, “B”, “C”, “D” to outputs of LNBS or preceding device in the cascade

- Connect output connectors marked “TERR”, “A”, “B”, “C”, “D” to inputs of next device in the cascade
- Connect power supply to socket marked “DC 12V”
- Terminate all unused inputs & outputs with DC-isolated 75 Ohm terminators

The wiring examples are shown in the section 10) Wiring Diagrams or at www.emp-centauri.cz.

6) Product Settings

Gain and slope adjustment is available for each channel separately. Turn the knob clockwise to increase the gain or slope. Turn the knob counterclockwise to decrease the gain or slope.

All channels are factory preset for maximum gain and slope.

Note: described settings are not available for 12dB amplifier versions.

7) Safety

Due to security reasons the product and wiring in which the product is connected must be grounded properly. Pay attention to lightning protection in accordance to valid regulations.

Connect all devices to power grid only after all connections are finished and checked.



Never work on the wiring (including satellite and terrestrial receivers, TVs) during or before a storm. A close lightning stroke 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.).

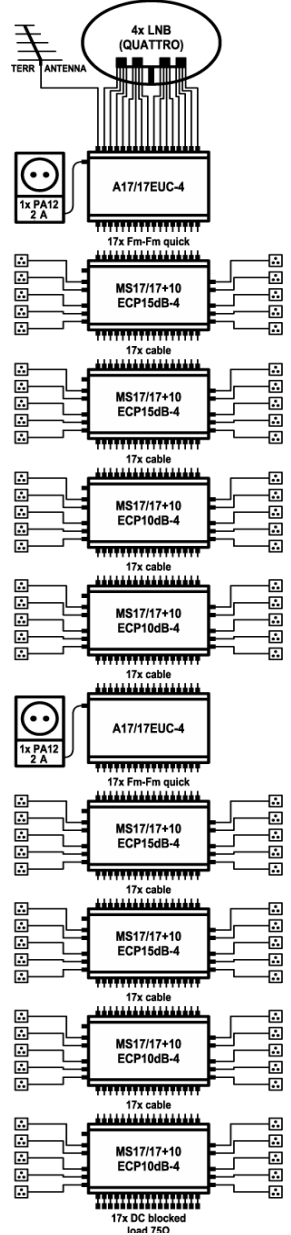
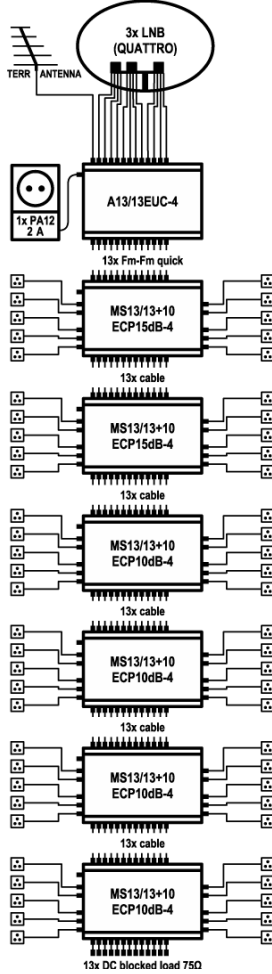
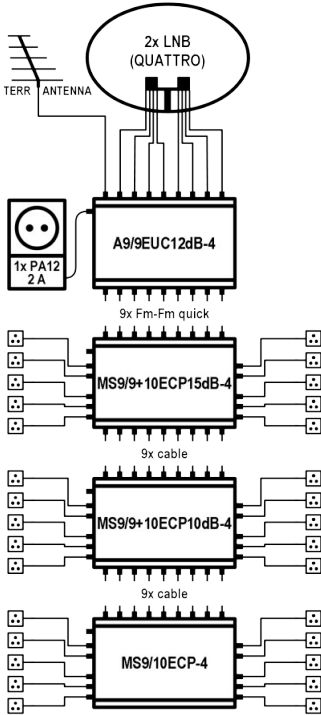
8) Product Maintenance

Always disconnect the product from wiring before performing any maintenance of the product. If you have to enter places with a risk of fall, pay attention to your safety. Use only dry cloth to clean the product and do not use any liquid agents. Coaxial cables installed outdoors should be replaced once in a few years. Unscrew all F connectors and clean connector contacts, resp. shorten the coaxial cable by approx. 2 cm, every 2 years.

9) Symbols Explanation

	certificate of conformity
	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.

10) Wiring Diagrams



11) Contact

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