

B4/0PEN-3

B4/4PEN-3

B1/1PEP-1

EMP-CENTAURI®

B5/0PEP-3

B5/5PEP-3

B2/2PCP-1

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 satellite and terrestrial TV signals.

EMP-Centauri's PROFI CLASS products are covered under 6 (six) years warranty from the date of purchase, see details in document "General Trade conditions", published at manufacturer's website www.emp-centauri.cz.

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 B4/0PEN-3 and B5/0PEP-3 are DC-inserters ("Bias-Tee") for 4 satellite IF lines, without or with terr. block. These devices perform also as 75 Ω impedance terminators.

Products B4/4PEN-3 and B5/5PEP-3 are DC-inserters ("Bias-Tee") for 4 satellite IF lines, without or with terr. block. These devices pass all input RF signals to respective outputs with minimum loss.

Products B1/1PEP-1 and B2/2PCP-1 are wideband DC-inserters ("Bias-Tee") for single coaxial line. While B1/1PEP-1 takes the power from external source through DC 2.1 socket, the B2/2PCP-1 takes the power from parallel coaxial line.

Specifications	B4/0PEN-3	B5/0PEP-3	B4/4PEN-3	B5/5PEP-3	B1/1PEP-1	B2/2PCP-1
Inputs / Outputs	4/—	5/—	4/4	5/5	1/1	2/2
RF bands*	4xSAT	4xSAT 1xTERR	4xSAT	4xSAT 1xTERR	1x wideband	
Insertion Loss	—		1 dB			
Termination	75 Ohm		—			
DC pass (max)	2A / 24 V					
Dimensions (w,d,h) (cm)	12.7 x 10.4 x 4.1				7.6x6.0x3.2	7.5x4.5x2.8
Temperature Range	-30 – +70 °C					

* Frequency Range TERR 5–862 MHz, SAT 950–2300 MHz, wideband 5-2300 MHz

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 dropping or running 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.

Do not place on the product or near the product

- any containers with liquids (vases, glasses etc.)
- naked flame sources (lighted candle etc.)

5) Product Connection

Connect the product in accordance with this manual and valid regulation in you country. Use high quality 75 Ω 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, in the case of using the screw F connectors proceed according to the following picture and instructions:



1. Remove the outer coaxial cable coating in the length of approx. 15 mm.
2. Roll up the metal shielding braid and the shielding foil underneath and cut the shielding with scissors to approx. 5 mm.
3. Remove approx. 10 mm of the inner plastic insulation (approx. 5 mm of the insulation remains in a place).
4. Carefully screw the F connector on the cable end until the plastic insulation levels with the F connector opening.
5. Check there is no short between the inner conductor of coaxial cable and F connector.

When appropriate, use quick F-F adaptors instead of short cable jumpers.

B4/0PEN-3, B5/0PEP-3

- Connect all inputs “1–4”, “TERR IN” with preceding device in cascade (cascadable multiswitch)
- Connect external power supply to socket “DC 0-24V in”

B4/4PEN-3, B5/5PEP-3

- Connect all inputs “1–4”, “TERR IN” with preceding device in cascade (LNB, cascadable multiswitch or amplifier)
- Connect all outputs “1–4”, “TERR OUT” with next device in cascade (cascadable multiswitch or amplifier)
- Connect external power supply to socket “DC 0-24V in”

B1/1PEP-1

- Connect input “RF+DC out” with preceding device in distribution system (active antenna, amplifier)
- Connect output “RF” with next device (multiswitch, wall socket)
- Connect external power supply to socket “DC 0-24V in”

B2/2PCP-1

- Connect input “RF+DC out” with preceding device in distribution system (active antenna, amplifier)
- Connect output “RF” with next device (multiswitch, wall socket)
- Connect next powered cable to sockets “RF+DC”

6) Safety

Due to security reasons the product and wiring in which the product is connected, must be grounded properly. Make sure the antennas are grounded properly. Connect all devices to power grid only after all connections are finished and checked. Never work on the wiring (including terrestrial and satellite receivers, TVs) during or before a storm. A lightning stroke into the antenna may cause dangerous overvoltage in the product metallic parts.

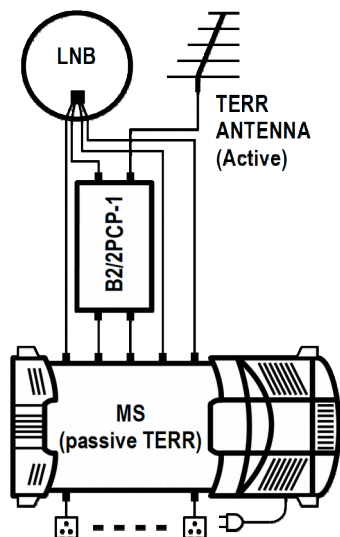
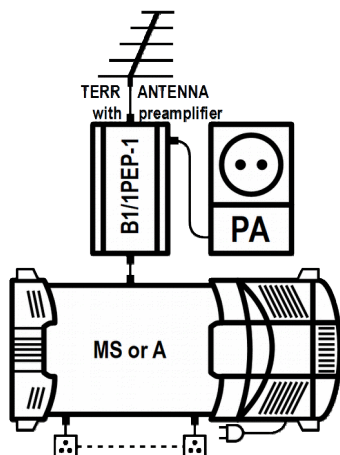
7) Product Maintenance

Always disconnect the product from the 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.

8) Symbols Explanation

	Certificate of conformity
	Grounding terminal
	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.

9) Wiring Diagrams



Other wiring examples are shown at www.emp-centauri.eu.

10) Contact

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