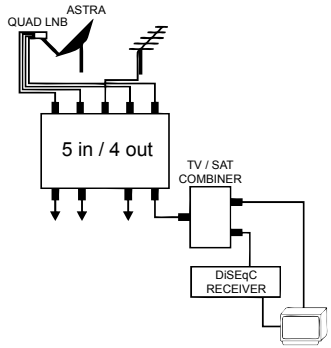
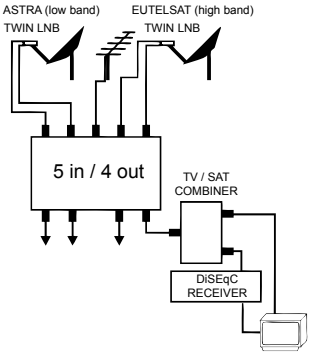
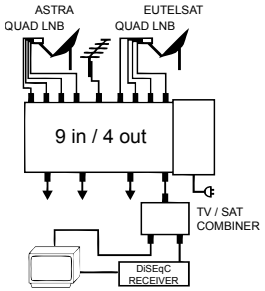
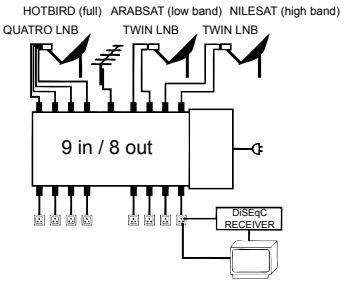
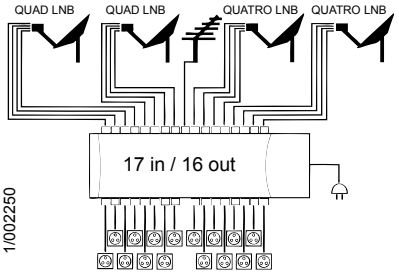
Examples of possible connections:











1/002250

EMP-Centauri s.r.o.
ul. 5. května 690
339 01 Klatovy 1
Czech Republic
☎ (+420) 376 314 852
fax: (+420) 376 314 367
info@emp-centauri.cz

EMP-CENTAURI®

www.emp-centauri.cz

Installation Instructions of Antenna Switches (Amplifiers)

We are most gratified that you have selected our product. Before using it, please be sure to read these instructions carefully. The antenna switch (amplifier) should be installed and connected only providing strict observance of instructions and valid directives.

Location of the device

The antenna switch (amplifier) should be firmly fitted onto the wall or other surface. For assembly it is necessary to use suitable screws (or attached fastening tapes) through which the product shall be caught to the washer or pole. The antenna switch (amplifier) must not be held in any case only by connected cables.
The antenna switch (amplifier) shall be located in a dry environment; it must not be exposed to rain and excessive humidity (e.g. dripping and splashing water), unless on the product designated otherwise. Use apparatus only in moderate climates (not in tropical climates).
The objects with liquids (vases etc.) and open fire sources (burning candles etc.) must not be put onto the device. The antenna switch (amplifier) must not be installed in the proximity of heat sources such as radiators or air ventilation and/or on a direct solar radiation and in the places with excessive dustiness, mechanical vibrations or shocks. The place for installation shall be selected in such a way that liquids (water) or other objects cannot penetrate into the device. Make sure that children cannot play with the antenna switch (amplifier) and its electric connection.
Make sure that air inlets on the device are neither covered nor blocked (e.g. with newspaper, tablecloth or curtains) and the space around the device is sufficiently ventilated. It is necessary to assure void space along the device sides at least 20 cm, upwards at least 50 cm. If you install the antenna switch (amplifier) equipped with power source, the place for the installation shall be selected in such a way that the mains plug shall remain readily operable!

Safety

Do not open the unit; otherwise there is a shock hazard! *Never work on the antenna switch (amplifier), TV set or on other connected devices in storm or before storm! By lightning stroke into the aerial, dangerous overvoltage on metal parts of the unit can occur.* If you are not sure with sufficient earthing of aerial feed, contact please an electrician, because aerials and aerial feeds are subject of earthing regulations. Use the unit only in dry environment. Place the unit out of reach of children.
If the antenna switch (amplifier) is equipped with a power supply unit, observe following instructions: The unit works with alternating voltage and frequency stated on the power supply unit plate. Make sure that local mains voltage corresponds to operation voltage of the unit. *Let repairs and replacing of mains supply only to qualified specialists.*
Assure a sufficient air circulation in order that no overheating of the unit occurs. Do not lay the unit on surfaces (carpets, covers and the like) or in the vicinity of materials (curtains, drapes) that could block vent openings of the power supply unit.
To prevent electric accident do not open the unit cover. First always remove the mains supply from the socket outlet before cleaning of the unit or working with its supply leads. If the unit comes into contact with liquids (e.g. drippings or spilt drinks), remove the mains supply plug from the socket outlet immediately. Otherwise in case of fault, a danger of life by electrical accident can arise. Use no liquid cleaning agents for cleaning the unit. The best way is to use a dry fabric.
First remove the mains supply from the socket outlet, when the unit is not used for a longer period. No objects may be laid on the mains supply in order that no damage or jam occurs, and the supply may touch no hot objects. Never pull the cable but only the plug. Otherwise the cable could be damaged. Pay attention that the plug always holds firmly in the socket outlet. Loosen plugs or socket outlets represent fire hazard.

Connection

For connection of inputs and outputs of the antenna switch (amplifier) use only good-quality coaxial cable intended for satellite reception, and F-connectors. In case of no mounted F-connectors on the cable, first remove the outer cable jacket at length of 15 mm. After that, roll up metal shielding braid backwards and shielding foil bellow it as well

and cut short the rolled-up shielding by means of scissor to approx. 5 mm. Remove now the inner plastic isolation in length of 10 mm, herewith approx. 5 mm of isolation will be left. Now swivel the F-connector on the cable end carefully until the plastic isolation will be flush with a hole in the connector. Take care not to short-circuit the inner lead and the shielding. Receiving operates in no case if there is a short circuit between the inner lead and the shielding. The coaxial cables may not be broken, minimum bend radius is 5 cm. Ensure proper grounding of the antenna.
Connecting the antenna switch (amplifier) with more than two outputs, the converters (LNB) of dual, twin, quatro type can be used and in the antenna multi-switches with built-in 22 kHz generators the quad converter can be used, too.
Caution! All cables being connected must be dead at time of connection execution. Before connecting, disconnect satellite receivers connected to the antenna switch (amplifier) from the mains socket outlet. If the antenna switch (amplifier) is equipped with a power supply unit, remove the unit mains plug from the socket outlet.
Connect the cables from aerials and satellite converters (LNC) to input connectors of the antenna switch (amplifier), these ones are marked with LNC or INP symbols. Output connectors are marked with OUT symbol. Tighten the F-connectors with appropriate force. In the course of interconnecting of the antenna switch (amplifier) to outputs of connectors (LNB), unconditionally *pay attention to identification of converter connectors!* Interconnect the input marked 13 V or 14 V to the converter output Vertical. Interconnect the input marked 17 V or 18 V to the converter output Horizontal. Interconnect the input marked 0 kHz to the converter output Low. Interconnect the input marked 22 kHz to the converter output High.
The antenna multi-switches and amplifiers equipped with attenuation regulators have a possibility to equalize the level of differently intensive signals. These works require adequate measurement devices. The antenna multi-switches with built-in 22 kHz generators allow extension of installations with a so-called quad converter. As these converters have a built-in switch, they must be activated by means of 22 kHz generators to change into a quatro converter with four fixed outputs. The miniature switches on the unit are described on the unit label from 1 to 4 as well as the appropriate inputs associated to them. After connecting of all coaxial cables to the unit, insert the mains plug in a socket outlet.

Troubleshooting

Disconnect the mains plug from the socket outlet at the antenna switch, amplifier, satellite receiver and TV set always you work with antenna connectors or on antenna equipment. Otherwise in case of fault, danger of life caused by electric current may occur! If you enter places in the course of checking, where a danger of fall impends, pay attention to your safety. Let repairs always only to specialist. In case of malfunction it is useful to check all possible faults systematically. Make sure that the satellite antenna is properly mounted, connected and optimally adjusted and the satellite receiver is installed, connected and turned on according to known regulations.
Frequently fault source is short circuit in the antenna cable. Afterwards, the converters cannot be supplied with electric current. Therefore check if the connectors are carefully and properly connected, namely both on the antenna switch (amplifier) and on the converters and the satellite receiver. In case of short circuit of the cable connected to an input of the antenna switch (amplifier) with a power supply unit, the power supply unit turns off electric power supply of the cable automatically. LED inside the source goes off. Disconnect the mains plug of the power supply unit from the socket outlet at least for 1 minute in this case and remedy short circuit of the cable. Afterwards, reconnect the mains plug of the power supply unit to the socket outlet.
Broken cables and interruption in them can cause the fault. Most commonly, these interruptions are just in connector joints, for example if the middle lead is cut too short and does not reach to a contact in the connector. The shielding braid must have a good contact with the connector case, too.
Sometimes, it is enough to reset the microcontroller in the antenna switch. Disconnect the mains plug of the satellite receiver and also of the antenna switch (if it is equipped with a power supply unit) from the socket outlet and reconnect it after several seconds. If you are not able to remedy the fault, please contact your distributor.

Device disposal

Electric/electronic devices which are marked by some of the following symbols must not be liquidated together with the municipal waste according to the EU directive. Use local return and collection systems to dispose of the old device.

Examples of possible connections: