

# S16/1PCP-W3

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 TV and radio signals. EMP-Centauri's PROFI CLASS products are covered under 6 (six) years warranty from the date of purchase. The warranty shall not apply to the product used for other than the specified purpose. 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**

S16/1PCP-W3 is antenna switch for distribution terrestrial and satellite signals from 16 satellite positions for 1 user in outdoor housing. Terrestrial input is provided. The switch is controlled from satellite receiver by DiSEqC 1.0, 1.1 or 1.2 commands (according to selected operation mode). The switch passes through DC voltage, 22 kHz and DiSEqC commands, its LNB inputs are short-circuit protected, terr. input is DC-blocked.

<b>Specifications</b>	<b>S16/1PCP-W3</b>
Number of inputs / Outputs	17 (16 x SAT + 1 TERR) / 1
Frequency Range	TERR 5–862 MHz, SAT 950–2150 MHz
Insertion Loss (avg)	TERR 2 dB, SAT 5 dB
Isolation (min)	SAT 25 dB (between inputs)
Control	DiSEqC 1.0, 1.1, 1.2
Current Consumption	80 mA (18 V DC) from satellite receiver
LNB Current (max)	400 mA (18V DC)
Dimensions (w,d,h)	17.2 x 20 x 6.9 cm
Temperature Range	-30 °C – +70 °C

avg – average value, with margin  $\pm 3$  dB within specified frequency range

### **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 by the qualified technician.**

The product must not be stored and installed, 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, etc.) and in the reach of children.

Fix the product firmly on a wall or another hard and inflammable surface with screws and dowels or fix it to the antenna mast with folding strip, the direction of F sockets is always downward. The product shall be in no case held only by the connected cables. 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. 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 input F sockets marked SAT 1–16 IN with outputs of single LNBS. Connect input F socket marked TERR IN with output of terrestrial antenna. Connect output F socket marked OUT with other components in distribution system (satellite receiver, wall socket etc.). The wiring examples are shown in the section 10) Wiring Diagrams or at [www.emp-centauri.cz](http://www.emp-centauri.cz).

### **6) Product Settings**

The switch is necessary to set to required operating mode by means of DIP switch, which is placed at the rear side of the switch (inside the plastic cover):

operating mode	DIP levers		setting of satellite receiver
	1	2	
DiSEqC 1.0	OFF	OFF	DiSEqC 1.0 – committed command 1–4 (A–D), relates directly to inputs SAT 1–4 IN
DiSEqC 1.1	ON	OFF	DiSEqC 1.1 – uncommitted command 1–16, relates directly to inputs SAT 1–16 IN
DiSEqC 1.0 + DiSEqC 1.1	OFF	ON	DiSEqC 1.0 – committed command 1–4 (A–D) + DiSEqC 1.1 – uncommitted command 1–4, its combinations relate to inputs SAT 1–16 IN
DiSEqC 1.2	ON	ON	16 motor's positions: the preset numbers (motor's memory storage units) 1–16 relate to inputs SAT 1–16 IN in the new product; the presets can be updated by searching procedure and saving new position

Notes to setting:

- DIP levers 3 & 4 are not used
- any change of setting of DIP levers will be applied only after reset (disconnecting and reconnecting of the OUT cable)
- the setting procedure of each receiver can differ, follow instruction manual of your receiver




## **7) 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 satellite receivers, TVs) during or before a storm. A lightning stroke into the antenna may cause dangerous overvoltage in the product metallic parts.**

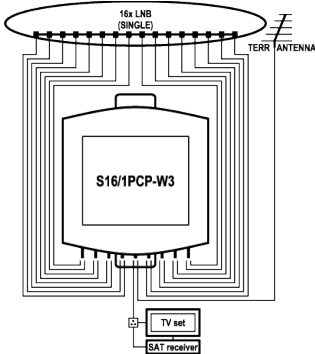
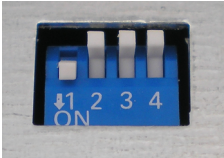
## **8) Product Maintenance**

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.

## 9) Symbols Explanation

	certificate of conformity
	international standard for digital satellite equipment control, number (1.0, 1.1, 1.2 or 2.0) determines DiSEqC version
	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

 <p>The diagram illustrates the wiring for the S16/1PCP-W3 switch. At the top, 16 individual LNB (SINGLE) units are connected to a common TERR ANTENNA. Each LNB is connected to the switch via a separate line. The switch is then connected to a TV set and a SAT receiver.</p>	<p>upper side of the switch</p>  <p>lower side of the switch</p> <p>(pictured setting is valid for operating mode DiSEqC 1.1)</p>
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## 11) Contact

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