

# Data Sheet



## AS 304-UHF / Art. No.: 5050



The antenna switch AS-304 is an electrically operated switch for four antennas. The unit is built into a weatherproof housing with mast mount. The switch is equipped with a highly loadable power relay. In the result this High Frequency Switch is recommendable for a variety of tasks due to its big frequency range and the high power capacity. The according antenna is selected by simply putting the operating voltage of 12 V DC to one of the three Plus-PINs of the DIN-connector.

### Basis facts for operation:

We recommend to install the antenna switch as close as possible to the feeding point of the antenna, directly at the antenna mast. The UHF-sockets should face downwards, so no water can enter at the connections. Even during rough weather conditions a troublefree operation can be expected when the unit is mounted properly. The electronic is embedded safely in the plastic housing.

### Technical Data

Frequency range	DC...600 MHz
Switching ranges	4
Insertion loss	< 0.2 dB / 500 MHz
Standing Wave Ratio	<1.2 : 1
Powewr max.	@10m 1.5 KW / SSB @2m 1 KW / SSB @70cm 0.6 KW / SSB
Connection norm	N- socket
Switching voltage	12 V at 80mA max.
Mast diameter	max. 58 mm

Do not open the unit. It does not contain any parts needing maintenance. If you need help regarding technical matters, please contact our team:

[technik@ssb-electronic.de](mailto:technik@ssb-electronic.de)

### Electrical connection:

A power source with 12V and ca 80 mA capacity and a suitable switch are needed. The four output sockets are labelled with ANT 1...ANT 4. In voltage-free condition the socket ANT 1 is always switched through. When connecting a voltage of + 12V-to PIN 2 of the DIN-connector, socket ANT 2 will be activated. This is true for the connections-PIN's 3 and 4 accordingly. The corresponding ground pole is

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always PIN 4 of the connector.  
We recommend to use a shielded control cable, like RG 178 or RG 58. Interference effects caused to the switch or the connected power supply by external noise sources as well as by own HF-transmissions are avoided safely herewith.

### Hint:

**The antenna switch must not be switched under load!**

### Pin assignment of the AS 304:

**PIN 4** = Earth/Ground/Minus

**Antenna 1** is switched to voltage-free condition.

**Antenna 2** +12V at PIN 3

**Antenna 3** +12V at PIN 2

**Antenna 4** +12V at PIN 1

### Disposal of your old appliance



This product is covered by the European Community directive 2002/96/EC. 2.

All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by

the government or by the local authorities. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and the human health.

For more detailed information about the disposal of your old appliance, please consult your city office, waste disposal service or the shop where you purchased the product.

Within Germany, the above regulations are also valid for the disposal of batteries and accumulators accordingly.

### Declaration of Conformity



Herewith we declare that this product complies with all relevant regulations for the product within the guidelines 73/23/EWG, 89/336/EWG and 99/5/EG of the Council:

**EN 301 489-15** Electromagnetic compatibility and Radio Spectrum Matters (ERM) Electromagnetic Compatibility (EMC) standard for radio equipment and services.  
Part 15: specific conditions for commercially available amateur radio equipment.

**EN 301 783-1** Electromagnetic compability and Radio Spectrum Matters (ERM); Land Mobile Service; commercially available amateur radio equipment.  
Part 1: technical characteristics and methods of measurement.

**EN 301 783-2** Electromagnetic compability and amateur radio equipment.  
Part 2: harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive.

**EN 60950-1:2001** Information technology equipment – safety.  
Part 1: General requirements.

Manufacturer:

SSB-Electronic GmbH  
Ostenfeldmark 21  
59557 Lippstadt

Contact:

E-Mail: [technik@ssb-electronic.de](mailto:technik@ssb-electronic.de)  
Telephone: +49(0)2941 – 93385 - 0