

4 Specifications

| | SDC 504 | SDC 508 | SDC 516 |
|---------------------------------|---|---|---------------|
| SAT inputs | | 4 | |
| Terrestrial input | | 1 | |
| Outputs | 4 | 8 | 16 |
| 22 kHz generator | | • | |
| Frequency range | SAT TERR | 950 ... 2200 MHz 5 ... 862 MHz 5 ... 65 MHz | |
| Return path | | | |
| Loss return path | 20 dB | 23 dB | 25 dB |
| Through loss | SAT TERR | 2 dB 2 dB | 4 dB 4 dB |
| Tap loss | SAT TERR | 1 dB 23 dB | 3 dB 25 dB |
| Isolation | Hor. / Vert. SAT / TERR Port / Port | > 30 dB > 25 dB > 20 dB | |
| Return loss | SAT TERR | 10 dB 10 dB | |
| Output level (receiver) | SAT TERR | max. 101 dB μ V passive | |
| Noise figure | SAT TERR | 7 dB passive | |
| Power supply LNB | | SDP 900 | |
| Input selection | | 14 V/18 V, 0/22 kHz | |
| Connector, impedance | | F connector, 75 Ω | |
| Current consumption (receiver) | | <65 mA | |
| Power consumption without LNB | | 1.5 W | |
| Ambient temperature | | -20°C ... +50°C | |
| Dimensions (WxHxD) [mm] approx. | 125x135x60 | 125x135x60 | 125x225x60 |

Assembly Instructions

English



Grundig SAT Systems

Multiswitches

SDC 504
SDC 508
SDC 516

Cascadable multiswitch:
SDC 508

If required:
Power pack SDP 900

SDC 504/SDC 516 (not shown)
If required:
Power pack SDP 900

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1 Important information on safety and assembly

Note



- Assembly and service must be carried out by an electrician.
- Check the system for short circuits in the coaxial cable before starting up.

- Mount the multiswitch:
 - on a non-flammable background (wall)
 - in a dust-free, dry environment
 - protected from moisture and water
 - somewhere protected from direct sunlight
 - away from the immediate vicinity of heat sources
- Make sure the input levels of the SAT stages are as equal as possible.
- Only install the system when it is not connected to the mains supply.
- Beware of short circuits.
- No liability is accepted for damage due to faulty connection or inexperienced handling.
- Obey all applicable standards, guidelines and directives (VDE0100, VDE0185, VDE0855, VDE0860, DIN18015, EN61319-1, EN50083).
- Earth the SAT receiver system via the equipotential bonding connector.
- Obey the national and local approval laws for broadcast receiver systems.

2 Technical description

Application

Multiswitches are used for distributing SAT IF signals and terrestrial signals in satellite receiver systems. Depending on the model, they can supply up to 16 receivers. By cascading multiswitches it is possible to increase the number of receivers which can be connected. The IF levels are selected according to 14/18 V and 0/22 kHz switching.

Power supply

The power pack which can be connected to the multiswitch provides the operating voltage for the LNBS. The power supply to the LNBS comes from the SAT-IF inputs of the multiswitches. Cascaded multiswitches only need one power pack, which is fitted to the multiswitch best positioned in relation to the mains power supply (230 V). The SAT-IF inputs and outputs are D.C. coupled. This carries the voltage to all the SAT-IF lines.

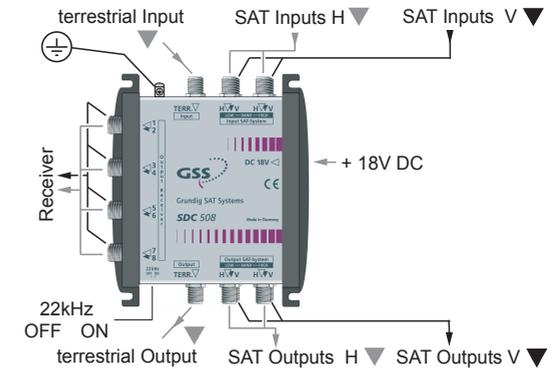
Cascading

You can connect multiswitches in series. The number of multiswitches which can be cascaded without raising the level depends on the LNB output level and the cable lengths. Always use FTD 75 DC decoupled terminators for the outputs of the last one multiswitch in a cascade.

3 Connections and controls

Connection layout for SDC 508

- Set the 22 kHz switch of the multiswitch to which the power pack is fitted to **ON**.
- Set the 22 kHz switch of multiswitches without power packs to **OFF**.



Example domestic installation with SDC 508 and SDP 900

