

4 Specifications / Technical Information

		SDSP 504	SDSP 506	SDSP 508	SDSP 512	SDSP 516
SAT inputs		4				
Terrestrial inputs		1				
Outputs		4	6	8	12	16
22 kHz generator		•				
Frequency range	SAT	950 ... 2200 MHz				
	TERR	5 ... 862 MHz				
	Return path	5 ... 65 MHz				
Loss return path *)		12 dB	15 dB		18 dB	
Tab loss	SAT	1 dB	1 dB		3 dB	
	TERR (passive)	12 dB	15 dB		18 dB	
	TERR (active)	3 dB	0 dB		-3 dB	
Isolation	Hor. / Vert.	> 30 dB				
	SAT / TERR	> 25 dB				
	Port / Port	> 20 dB				
Return loss	SAT	10 dB				
	TERR	10 dB				
Output level	SAT	max. 101 dB μ V				
	TERR	max. 97 dB μ V				
Noise figure	SAT	7 dB				
	TERR	6 dB				
Power supply LNB		14 V / 18 V, max. 1 A 22 kHz switchable				
Input selection		14 V / 18 V, 0 / 22 kHz				
Connector, Impedance		F connector, 75 Ω				
Current consumption (Receiver)		<65 mA				
Power consumption without LNB		4.7 W				
Ambient temperature		-20°C ... +50°C				
Dimensions (WxHxD) [mm]		225 x 125 x 60			225 x 215 x 60	

*) Position of the level control: -10 dB (Tab loss terr. passive)

Multiswitches

SDSP 504 **SDSP 506**
SDSP 508 **SDSP 512**
 SDSP 516



Multiswitch for 4 receivers
SDSP 504

Multiswitch for 6 receivers
SDSP 506 (not shown)
Multiswitch for 8 receivers
SDSP 508 (not shown)
Multiswitch for 12 receivers
SDSP 512 (not shown)
Multiswitch for 16 receivers
SDSP 516 (not shown)



English

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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 inexpert 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 for single installation 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. The IF levels are selected according to 14/18 V and 0/22 kHz switching.

Power supply

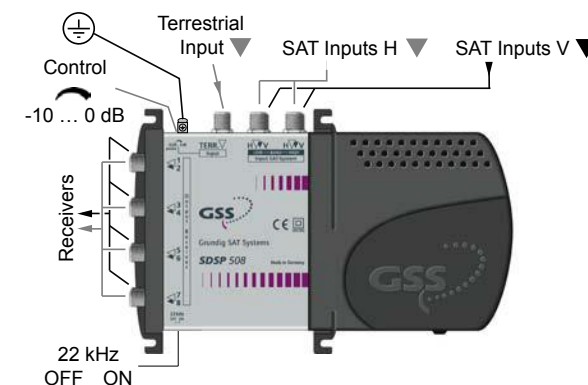
The power pack provides the operating voltage for the LNBs. The power supply to the LNBs comes from the SAT-IF inputs of the multiswitches.

3 Connections and controls

Connection layout for SDSP 508

Control -10 ... 0 dB

Set the output level of the terrestrial antenna signal. Using the return path set the control to -10 dB.



22 kHz switch

Using a Quad-LNB with an integrated multiswitch, set the 22 kHz switch to **ON**.

Example domestic installation with SDSP 508

