

Stacker / De-Stacker

SAT IF



SS 3550 SDS 3550

The Stacker/De-Stacker solution allows two satellite bands (frequency range between 950...2150 MHz) to be transmitted via a single coaxial cable.

The Stacker combines two SAT signals by using frequency UP conversion. Hereby the frequency range above 2150 MHz is used. The system is also capable to transmit terrestrial signals.

The combined signals are transmitted over a single coaxial cable to the De-Stacker. This unit is using a DOWN conversion to convert the two signals back to the original frequency range. At the output of the De-Stacker the two original SAT signals and the terrestrial signal are available.

An integrated slope correction allows the user to cover cable lengths of up to 60 meters.

The complete Stacker/De-Stacker is powered by an internal power supply which is connected to the De-Stacker. This is done to avoid any switching problems caused by overload from the receiver.

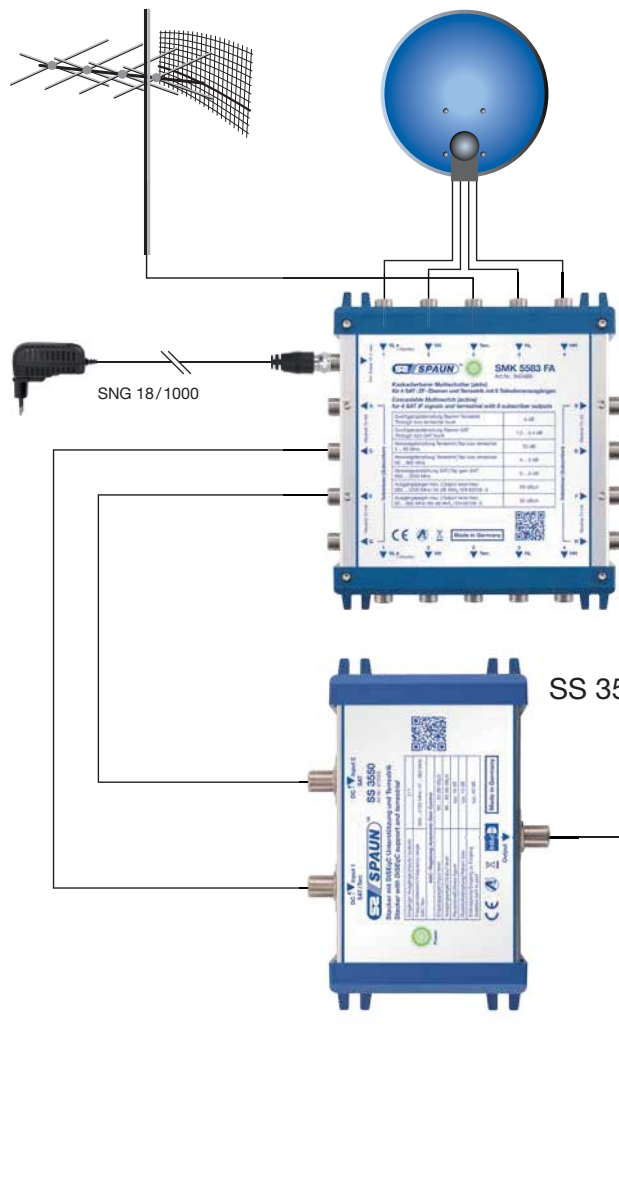
The Stacker does have a green Power LED.

The De-Stacker does have a LED. During AGC is adjusting the LED flashes green. After a successful adjustment the LED illuminates permanently green.

Model Art. No.	SS 3550 872020
EAN	4040326720202
Input frequency range SAT	950...2150 MHz
Input frequency range terr.	47...862 MHz
Output frequency range stacker	47...3550 MHz
Input signal level AGC controlled	60...95 dBμV
Output signal level AGC controlled	94...98 dBμV
Isolation port to port	typ. 40 dB
LNB remote current	max. 350 mA
Power consumption	180 mA

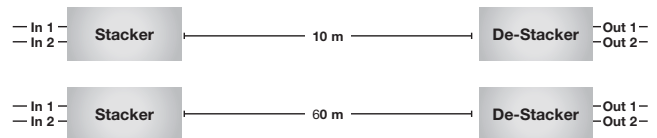
Model Art. No.	SDS 3550 872021
EAN	4040326720219
Input frequency range De-Stacker	47...3550 MHz
Output frequency range SAT	950...2150 MHz
Output frequency range terr.	47...862 MHz
Input signal level AGC controlled	63...98 dBμV
Output signal level AGC controlled	70 dBμV
Isolation port to port	typ. 40 dB
Mains power supply U~	100-240V/47-63 Hz
Power consumption	130 mA
Switching commands	DiSEqC 1.0 Voltage, tone

Application diagram



Distance between Stacker/De-Stacker	Input level Stacker	Output level Stacker	Input level De-Stacker	Output level De-Stacker
10 m	70 dBμV	98 dBμV	94 dBμV	70 dBμV
60 m	70 dBμV	98 dBμV	74 dBμV	70 dBμV

* Calculation based on SPOAX 111 coaxial cable.



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SVF 12 FW

Amplifier for the Stacker/De-Stacker solution with integrated slope correction.

Model Art. No.	SVF 12 FW 872022
EAN	4040326720226
Frequency range	47 ... 862 MHz 950 ... 3550 MHz
Insertion gain	Terrestrial: 47 MHz -2 dB ± 1 dB 862 MHz +2 dB ± 1 dB Satellite: 950 MHz +2,5 dB ± 1 dB 2150 MHz +7,5 dB ± 1 dB 2500 MHz +8,0 dB ± 1 dB 3550 MHz +12 dB ± 1 dB
Supply voltage	18V
Current passed	Max. 650 mA including the SVF 12 FW current draw