

Model Art. No.	SMK 5543 F 842490	SMK 5583 F 842491	SMK 55123 F 842492	SMK 55163 F 842493	SMK 55243 F 842494
Inputs/outputs SAT/terrestrial	5/5 4/1				
Subscriber outputs	4	8	12	16	24
Through loss terrestrial	4 dB	5 dB	6...5 dB	6...5 dB	6...5 dB
Through loss SAT	1...1,5 dB	1,5...3 dB	2...4 dB	2...6 dB	3...7 dB
Tap loss terrestrial	18...19 dB	20...21 dB	25...23 dB	25...24 dB	28 dB
Tap loss SAT	22...18 dB	22...18 dB	22...18 dB	21...17 dB	23...20 dB
Switching isolation	≥ 30 dB				
Isolation Trunk line/trunk line	> 30 dB				
Isolation Receiver/receiver	≥ 30 dB				
Current consumption max. trunk line 0, 2, 3 and 4	1 A				
Current consumption for each receiver max.	max. 20 mA				
Ambient temperature	-20...+50°C				
Dimensions (mm)	90 x 140 x 40	145 x 131 x 40	185 x 131 x 40	225 x 131 x 40	305 x 131 x 40

## Operation Manual

for the Launch amplifier SBK 5509 NF  
and the Cascadable Multiswitches SMK 5543 F, SMK 5583 F,  
SMK 55123 F, SMK 55163 F and SMK 55243 F.



**Important: Please read and follow this instructions.**



Installation is only permitted in dry rooms and upon a non-combustible surface. Ensure that there is adequate air circulation. Wall mounting only with power supply housing at left or right side of the device (horizontal mounting).



SPAUN electronic confirms the keeping of the EMC requirements in accordance to the EU product norm EN 50083-2 and the keeping of the safety requirements in accordance to the EU product norm EN 60728-11 by the CE sign.



The devices meet the more stringent screening requirements according to EN 50083-2, quality grade A.



All components are equipped with an earthing terminal for connecting to the main potential equalisation.



The permissible ambient temperature range is:  
-20°C...+50°C (253 K...323 K).



The C-Tick mark shows the conformity of the device with the EMC regulations of the ACA. (ACA requirements bases on CISPR, CENELEC and IEC standards).

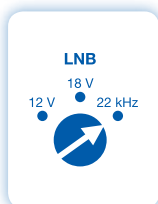


Electrical and electronic equipment **are not household waste**. In accordance with the European directive EN 50419 (corresponds to the article 11(2) of the guideline 2002/96/EC) of the European Parliament and the Council of January, 27th 2003 on used electrical and electronic equipment, it must be disposed properly. At the end of the product life cycle please take this unit and dispose it on designated public collection points.

## Setting instructions

### Power Supply to LNB

#### Supply modes



- 12 V: The LNB inputs **1**; **2**; **3** and **4** provide a remote voltage of 12 V to power the LNB (SMATV LNB).
- 18 V: The LNB inputs **1** and **2** provide a remote voltage of 12 V and the LNB inputs **3** and **4** provide a remote voltage of 18 V to power the LNB (TWIN LNB).
- 22 kHz: The LNB inputs provide the following remote voltages:

1	3	2	4
12V	18V	12V	18V
22 kHz			

**The LNB remote current must not exceed a total of 0,4 A.**

### Input Levels



The SBK 5509 NF has a separate level attenuator for each SAT IF input. Level adjustment range: 0 ... -8 dB.

### Power Supply

The launch amplifier has an internal, energy-saving, switched-mode power supply. Nominal voltage AC: 100-240 V/47-63 V/Voltage range AC: 92-265 V/47-63 Hz.

Power consumption (with max. remote current):  
 SAT active, with max. 12 V/400 mA LNB: 15,0 W.  
 SAT active, with max. 18 V/400 mA LNB: 18,5 W.

### Terrestrial

The through loss is max. 3,5 dB.

It is not recommended to connect aerials directly. Selective devices should be used to avoid interference., e.g. FMP 30, VFM ... F or MBV ... PF.

### SAT IF distribution

The maximum input level is typically 78 dBμV for the SBK 5509 NF with full transponder load. The IF signals are to be feed into the launch amplifiers and the multiswitches in accordance with the labeling so that the logical assignment of the IF levels matches the switching criteria.

### Maximum output levels

EN 60728-3/35 dB IMA<sub>3</sub>: 110 dBμV

### Cascadable multiswitches

**SMK 5543 F, SMK 5583 F, SMK 55123 F, SMK 55163 F and SMK 55243 F**

These modules are accessory components for the launch amplifier for constructing a satellite IF distribution system. They support the terrestrial signal distribution and are fully return path compatible.

In the case of central distribution, the components can be connected to one another with ZSV 2 S Push On F Coupler (male), or they may also be installed separated from one another as "storey distributors".

The trunk lines of the cascade have to be terminated with DC isolated resistors (ZFR 75 DC). These DC isolated resistors are supplied with the launch amplifier.

As a rule, about 3 cascadable multiswitches can be connected one behind the other. A network repeater amplifier (e.g. type NVF 55.. SR) should be used in order to subsequently install additional distributors. The cascade components have a current consumption of max. 20 mA per connected receiver (see our table at the last page).

All five trunk lines can transmit remote feeding currents up to 1 A.