

Technical Instructions

for the Launch amplifier

SBK 5509 NF

and the cascadable multiswitches

SMK 5542 F, SMK 5562 F and SMK 5582 F



Important: please observe the following 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).



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



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 50083-1 by the CE sign.



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).



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



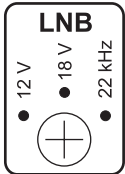
The Launch amplifier and the multiswitches meet the more stringent screening requirements according to EN 50083-2, quality grade A.

*The specialist for
SAT IF distribution* //

Setting instructions:

Power Supply to LNB

Supply modes:



12 V: The LNB inputs **1**; **3**; **2** 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
12 V	18 V	12 V	18 V
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, switch 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 dB μ V 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 50083-3 / 35 dB IMA₃: 110 dB μ V

EN 50083-3 / 35 dB IMA₂: 110 dB μ V

Cascadable multiswitches:

SMK 5542 F, SMK 5562 F and SMK 5582 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 connectors, or they may also be installed separated from one another as "storey distributors".

The trunklines 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. The cascade components have a current consumption of 40 mA per connected receiver.

All five trunklines can transmit remote feeding currents up to 2 A.

Technical data

Type designation	SMK 5542 F	SMK 5562 F	SMK 5582 F
Order no.	842371	842372	842373
Frequency range	1x 5...862 MHz / 4x 950 ... 2200 MHz		
Number of subscribers	4	6	8
Through loss, SAT:	1...2 dB	2...4,5 dB	2...4,5 dB
Through loss, Terr.:	4 dB	5 dB	6 dB
Tap loss, SAT:	21...18 dB	18...15 dB	
Tap loss, Terr.:	20 dB	20...18 dB	
Switching Isolation	26 dB		
Isolation: - Trunkline/Trunkline - Tap/Tap	> 30 dB > 26 dB		
Current requirement per receiver	max. 40 mA		
Dimensions	W= 140 mm H= 90 mm D= 38 mm	W= 140 mm H= 153 mm D= 38 mm	