Model Art. No.	GTS 525 WB 842233
Inputs SAT/Terr.	5 4 / 1
Outputs / Subscribers	2 x 5
Through loss Terr.: 5 ... 160 MHz	5 dB
Through loss SAT-IF: 250 ... 2200 MHz	6 dB
Isolation Input / Input	> 26 dB
Isolation Output Terr.:	> 20 dB
Isolation Output SAT:	> 15 dB
Isolation of taps	> 26 dB
max. LNB supply current	450 mA
DC-through	max. 30 V / 2 A
Ambient temperature	68 ... 122 °F
Dimensions in inch	6,14 x 6,02 x 1,46

Model Art. No.	GZR 5550/15 WB 841155
Inputs SAT/Terr.	5 4 / 1
Outputs / Subscribers	2 x 5
Through loss Terr.: 5 ... 160 MHz	3 dB
Through loss SAT: 250 ... 2200 MHz	5 dB
Tap loss Terr.: 5 ... 160 MHz	10 dB
Tap loss SAT-IF: 250 ... 2200 MHz	15 ... 13 dB
Isolation trunk / trunk trunk / tap tap / tap	 > 26 dB > 26 dB > 26 dB
DC-through	max. 30 V / 2 A
Ambient temperature	68 ... 122 °F
Dimensions in inch	6,14 x 6,02 x 1,46

Model Art. No.	GBK 5500 WBP 842451
Inputs SAT/Terr.	5 4 / 1
Outputs / Subscribers	5
Trunk gain Terr.: 5 ... 160 MHz	- 2 dB
Trunk gain SAT-IF:250 ... 2200 MHz	18 ... 28 dB
Maximum output level 250 ... 2200 MHz 35 dB IMA_3 / EN 50083-3	1,25 dBm
Isolation of taps	> 26 dB
max. LNB supply current	450 mA
Ambient temperature	68 ... 122 °F
Dimensions in inch	3,75 x 6,02 x 1,46
External power supply SNG 18 / 1000	100-240V, 50-60Hz DC 18 V / 1000 mA

The wall power supply **SNG 18/1000** is included in the delivery for the following products: SMS41x09, GMS 5XX09 WBP, GBK 5500 WBP

Stand-By Mode

The multiswitches have a stand-by mode. In stand-by mode the satellite IF amplifier stages and the supply for the LNB are switched off. If a receiver or antenna test equipment with LNB power supply is connected to a subscriber output, then the multiswitch switches automatically to standard mode.

Application example	14 V	18 V	14 V + 22 kHz	18 V + 22 kHz
Stack Plan				
Ka-Low	99° L	99° R	103° L	103° R
Ku	101° L	101° R	119° L	110° / 119° R
Ka-High	99° L	99° R	103° L	103° R
SAT IF frequencies				
Ka-Low	250 - 750 MHz			
Ku	950 - 1450 MHz			
Ka-High	1650 - 2150 MHz			

Byk-Gulden-Str. 22 · D-78224 Singen
Telefon: +49 (0) 7731 - 8673-0 · Telefax: +49 (0) 7731 - 8673-17
E-Mail: info@spaun.de · www.spaun.de

SPAUN electronic

Technical Instructions

for the wideband devices SMS 41X09 WBP, GMS 5XX09 WBP,GBK 5500 WBP, GTS 525 WB and GZR 5550/15 WB

- The wideband multiswitches of the SMS 41x09 WBP series are designed to distribute the KA KU band signals from the DIRECTV 5 LNB system to 12 or 16 subscribers
- It is possible to get the HD channels using a HD capable receiver
- The multiswitches are fed by an external wall power supply SNG 18/1000. The maximum current is 1000 mA

Important: please observe the following instructions!

- The equipment described is designed solely for use in installation of satellite receiver systems.
- Any other use, or failure to comply with these instructions, will result in voiding of warranty cover.
- It is a must to comply with all country specific installation and safety regulations.

- The equipment may only be installed in dry indoor areas. Do not mount on or against highly combus tible materials.
- The safety regulations in accordance with EN 50083- and EN 60065 A 11 must be observed.
- Fixings: Wood screws, max. : 4,5 mm
- Connector: Screw coupling 75 (series F) to IEC 60169.
- Unused subscriber connections should be terminated by 75 Ohm resistors (e.g. ZFR 75 DC).

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 multiswitches 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 equalization.

 104056/07.08

Current-carrying unit

- Do not open or manipulate the unit!
- When working on the system always unplug the mains plug from the wall outlet!
- Ensure adequate clearance! min. 5 cm to all sides!
- Free circulation of air must be possible to discharge the heat emitted by the unit. Risk of overheating!
- Permissible ambient temperature -20 ...+50° C (253 K ... 323 K)

Attention:

- No liquid-filled items may be placed on top of the power supply unit.
- The power supply unit must not be exposed to dripping or splashing water.
- The mains plug must be easily accessible and operable.

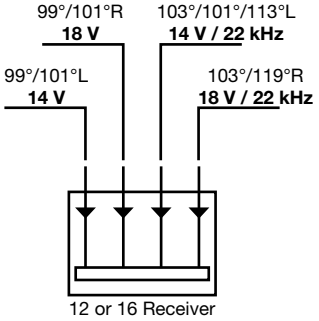
Power supply:

The wideband multiswitches have to be fed by an external wall power supply called SNG 18/1000.

The supply voltage range is:	100 ... 240 V ~
The supply voltage frequency may vary between:	47 and 63 Hz
Output voltage is 19 V with a maximum current of	1000 mA

LNB remote voltage:

The LNB inputs provide a voltage as shown below.
Please have a look to our stack plan to connect the LNB inputs in the right way.



LNB remote current	
- Total current:	400 mA
- Single port current:	400 mA
Current consumption:	450 mA
max. current consumption from Receiver:	50 mA

The LNB inputs provide a voltage as shown below.
Please have a look to our stack plan to connect the LNB inputs in the right way.

Model Art. No.	**SMS 41209 WBP** 842446	**SMS 41609 WBP** 842447
Inputs SAT	4	
Outputs / Subscribers	12	16
Tap gain SAT-IF: 250 ... 2200 MHz	- 2 ... +7 dB	
Maximum output level 250 ... 2200 MHz 35 dB IMA_3 / EN 50083-3	- 14 dBm	
Isolation of taps	> 26 dB	
max. LNB supply current	400 mA	
Current consumption from each receiver	50 mA	
Ambient temperature	68 ... 122 °F	
Dimensions in inch	8,31 x 5,71 x 1,54	
External power supply SNG 18 / 1000	100-240V, 50-60Hz DC 18 V / 1000 mA	

Model Art. No.	**GMS 5809 WBP** 842461	**GMS 51209 WBP** 842452	**GMS 51609 WBP** 842453
Inputs SAT/Terr.	5 4 / 1		
Outputs / Subscribers	8	12	16
Tap loss Terr.: 5 ...160 MHz	20 ... 22 dB		
Tap gain SAT-IF: 250 ... 2200 MHz	2 ... 8 dB	- 6 ... 3 dB	
Maximum output level 250 ... 2200 MHz 35 dB IMA_3 / EN 50083-3	- 13 dBm		
Isolation of taps	> 26 dB		
max. LNB supply current	400 mA		
Current consumption from each receiver	50 mA		
Ambient temperature	68 ... 122 °F		
Dimensions in inch	9,29 x 6,02 x 1,46		
External power supply SNG 18 / 1000	100-240V, 50-60Hz DC 18 V / 1000 mA		

Application example	**14 V**	**18 V**	**14 V + 22 kHz**	**18 V + 22 kHz**
Stack Plan				
Ka-Low	99° L	99° R	103° L	103° R
Ku	101° L	101° R	119° L	110° / 119° R
Ka-High	99° L	99° R	103° L	103° R
SAT IF frequencies				
Ka-Low	250 - 750 MHz			
Ku	950 - 1450 MHz			
Ka-High	1650 - 2150 MHz			