

SmartKom intelligent amplifier with automatic and advanced programming, with ASuite app

Compact high technology preamplifier with digital channel processing, designed for outdoors installation in family-houses. Equipped with 3 inputs, it combines and amplifies these terrestrial signals (VHF+UHF) to bring in stations from different sites. Each channel can be individually filtered and adjusted by any of the 32 available programmable filters. SmartKom is supplied with a 12V (750mA) domestic power supply that is inserted into the coaxial installation and powers it through its output connector.

Thanks to the Bluetooth® antenna included into the PSU, the preamplifier can be programmed wirelessly via smartphone or tablet using the ASuite application. This application offers 2 programming modes:

- Automatic: the preamplifier uses its intelligence and self-programs itself, performing a channel scan and selecting the most prominent channels. Afterwards, it also balances the signal level between channels.
- Advanced: it is the professional who carries out a more personalized configuration of the installation. Using ASuite, he filters the desired channels and adjusts the level of each one of them. All of this, from indoors and without having to physically go to the location of the preamplifier.

Ref.	531983
EAN13	8424450317860

Other features

Colour	Grey
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Packaging info

Box	1 pcs.
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Physical data

Net weight	820.00 g
Gross weight	900.00 g
Width	125.00 mm
Height	89.00 mm
Depth	31.00 mm
Main product weight	359.00 g

Highlights

- "All-in-one" device: it combines the functions of several functions needed in an installation including filters, combiners and amplifiers, supplying a complete signal distribution under a single coaxial cable
- With the ASuite application it is possible to program the device wirelessly (**Bluetooth®**), either automatic or advanced, avoiding the need to physically climb the mast
- Autoprogramming: with this function available in ASuite, the preamplifier performs channel filtering and level adjustment by itself, as well as powering the antennas when it detects that the signal requires it
- Advanced programming: professionals can perform a more customized configuration in ASuite, selecting the desired channels on each of the inputs and adjusting the levels of each channel
- Automatic gain regulation of signal in each filter (AGC) and wide dynamic range in each filter adjusts all carriers to the same power
- Great signal quality: its digital processing minimizes severe signal loss, co-channel interference, as well as multipath and phasing interference common with conventional splitters/combiners
- Compatible with existing HDTV signals and UHD 4K stations (NextGen TV / ATSC 3.0)

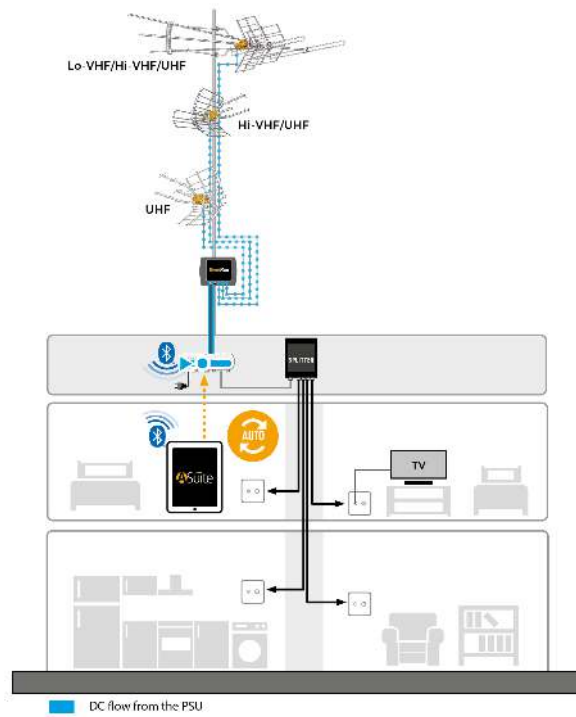
- Undesired out of band and cell phone LTE/5G signals are filtered to avoid interference
- Secure configuration: in case of loss of power, SmartKom saves the current configuration, avoiding the need to configure it again
- Remote powering, through the coaxial cable
- LEDs status indicators, as well as both adjustment and programming physical buttons on the preamplifier and on the power supply
- High shielding chassis (Zamak) to protect against electromagnetic interference
- Weather resistant: the device is housed inside a sturdy weather resistant case
- Static installation: SmartKom does not require moving mechanical parts that are prone to failure
- 100% European design and manufacturing: fully automated manufacturing, subject to the most stringent quality controls

Application example

SmartKom preamplifier installation in a single family house

The device is installed on the antenna mast and is powered through the coaxial output connector.

The PSU is located indoors and includes a Bluetooth® antenna to wireless program the solution with ASuite App.



Technical specifications : Ref. 531983

Number of inputs				3
Number of outputs				1
Bands		BI	BIII	UHF
Frequency range	MHz	54 ... 88	174 ... 216	470 ... 608
Input level	dBmV	-20 ... 30	-20 ... 30	-20 ... 30
Gain	dB	45	45	45
Gain adjustment range		AGC	AGC	AGC
Number of filters		32	32	32
Channels per filter		1	1	1
Channels		2 ... 6	7 ... 13	14 ... 36
Filtered channel level regulation		AGC per filter	AGC per filter	AGC per filter
Selectivity	dB	> 50* ¹	> 50* ²	> 50* ³
Output level	dBmV	22	22	25
Vout regulation	dBmV	-3 ... 22	-3 ... 22	0 ... 25
Manual regulation after auto-adjustment	dB	-3 ... 3	-3 ... 3	-3 ... 3
Powering per inputs	Vdc		12	
Max current input	mA		70	
Max. current	mA		500	
Protection index (IP)			23	
Operating temperature	°F		23 ... 113	
PSU frequency range TV-MIX	MHz		47 ... 862	
PSU output voltage	Vdc		12	
Max PSU output current	mA		750	
PSU insertion losses	dB		< 2	
PSU input voltage	Vac		110 ... 120	
Max PSU current input	mA		200	
Max. PSU power consumption	W		14	
PSU protection index			20	
PSU operating temperature	°F		23 ... 113	

*¹ With adjacent channels: >30dB (@1MHz) // Without adjacent channels: >50 dB (@6MHz)

*² With adjacent channels: >30dB (@1MHz) // Without adjacent channels: >50 dB (@6MHz)

*³ With adjacent channels: >30dB (@1MHz) // Without adjacent channels: >50 dB (@6MHz)