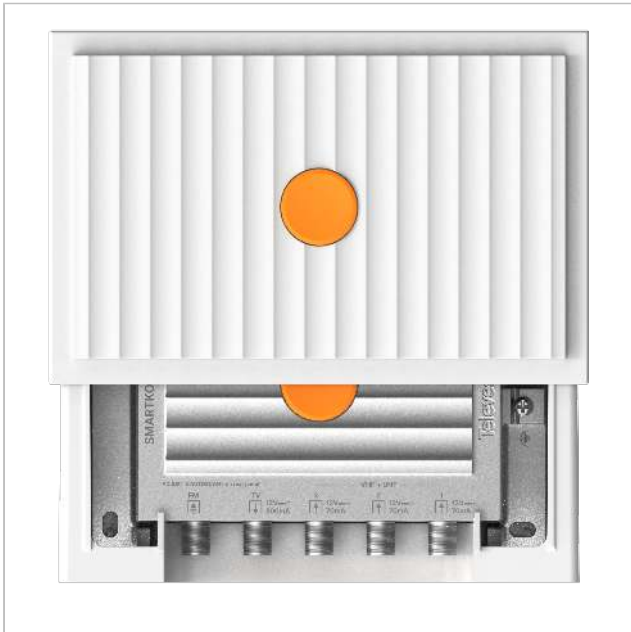




SmartKom intelligent mast amplifier, with automatic and advanced programming via ASuite app

SmartKom is a **compact, intelligent** mast amplifier with digital channel processing, designed for single-family homes installations. It integrates signal filtering, amplification and mixing functions into a single device, simplifying installation and ensuring stable signal distribution even in environments with variable reception conditions.

It features 3 inputs for amplifying terrestrial signals (VHF+UHF), with each channel capable of being filtered individually using any of the **32 available programmable filters**. It also includes an input for FM radio mixing.

Its **very low noise figure**, combined with on-mast amplification and automatic gain control per channel, ensures excellent MER, which is particularly important for DVB-T2 broadcasts.

The amplifier is supplied with a 12V (800mA) domestic power supply unit that is inserted into the coaxial installation and powers it through its output connector. This PSU incorporates Bluetooth® connectivity and allows the **SmartKom to be paired with a smartphone or tablet for programming via ASuite app**.

Its programming can be adapted to the profile of each installation. In **automatic mode**, SmartKom detects available channels, configures the appropriate filters, adjusts output levels and even

activates the antenna power supply when necessary, completing the entire process in less than a minute. For installations requiring a higher level of customisation, the **advanced mode** allows the professional installer to select the desired channels and configure each filter individually via ASuite app.

RED compliant

Ref.	531913
Logical ref.	SMARTKOM
EAN13	8424450323847

Other features

Colour	White
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Packaging info

Box	1 pcs.
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Physical data

Net weight	820.00 g
Gross volume	1.75 dm³
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:** combines the functions of several elements of an installation, such as filters, mixers and amplifiers, supplying a complete signal distribution under a single coaxial cable
- **Autoprogramming:** the device automatically detects available channels, configures the filters, adjusts the levels and activates the antenna power supply when necessary. All this in less than a

minute

- **Advanced programming with ASuite:** allows the installer to carry out a more customised configuration, selecting the desired channels on each input and adjusting the levels of each channel
- **Digital channel processing:** the 32 available filters optimise each channel independently to provide a perfectly balanced signal
- **Automatic Gain Control (AGC):** ensures balanced signal levels across all output channels
- **Very low noise figure:** preserves a high MER, which is particularly beneficial for DVB-T2 broadcasts
- **High-selectivity digital filters:** 28dB@1MHz
- **4G/5G signal rejection:** incorporates a high-selectivity SAW (*Surface Acoustic Wave*) filter to ensure that current and future mobile phone signals do not interfere with the television signal
- **Secure configuration:** in the event of electrical failure, SmartKom saves its settings without the need for reprogramming when power is restored
- **Status visible at a glance:** indicator LEDs on both the amplifier and the power supply
- **Fully shielded:** chassis made of Zamak to keep the electronics isolated from electromagnetic interference
- **Built to last:** includes a white ABS plastic enclosure for high durability and UV protection for outdoor use (*in accordance with ISO 4892-3:2016*)
- **More compact design:** up to 30% smaller in volume, making it easier to handle when installing it on the mast
- **100% Televes philosophy:** designed, developed and manufactured entirely in our robotised facilities, guaranteeing product quality through specific manufacturing controls and tests

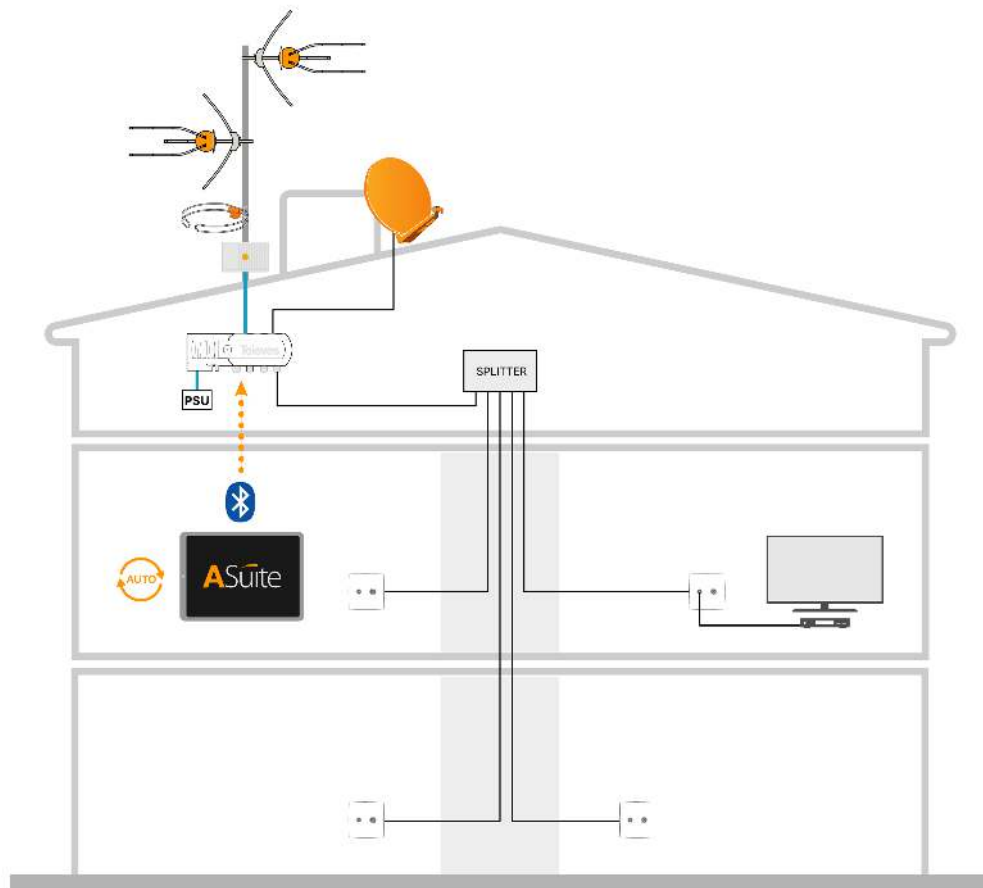
Application example

SmartKom mast amplifier 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 Bluetooth® to wireless program with

ASuite App.



Functionalities

Channel filter programming



The desired channels are selected from each of the available inputs, assigning a filter to each of them up to a maximum of 32.

Autoprogramming



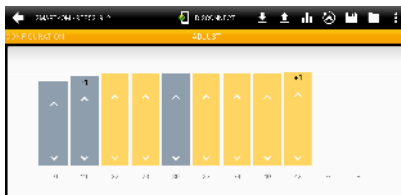
This function processes the channels at the inputs, selecting the most prominent ones and assigning a filter to each of them. Afterwards, it performs an autoadjust to balance the signal level of the filtered channels. All of this in less than 1 minute.

Channel level autoadjust



The signal level of each channel is automatically processed by the device, bringing out the maximum possible level and balancing all filtered channels, so that there are no signal fluctuations between them.

Channel level manual fine adjustment



ASuite allows a further adjustment of $\pm 3\text{dB}$ to the previously autoadjust. It is carried out manually and independently for each filter, for those channels that require a finer adjustment.

Antenna power supply switching



It manages the flow of current through each of the inputs to power antennas or preamps, when the processed signal requires it.

Import/Export configurations



ASuite offers saving of configurations, as well as the loading of previously stored ones, saving time to the professional in the installation.

Technical specifications : Ref. 531913

Number of inputs			4	
Number of outputs			1	
Bands		FM	VHF	UHF
Frequency range	MHz	87.5 ... 108	174 ... 230	470 ... 694
Input level	dBmV	--	-20 ... 20	-20 ... 20
Gain	dB	-1	45	45
Gain adjustment range		--	AGC	AGC
Max. number of filters		--	32	32
Channels per filter		--	1	1
Channels		--	5 ... 12	21 ... 48
Filtered channel level regulation		--	AGC per filter	AGC per filter
Selectivity	dB	> 20* ¹	28 * ²	28 * ³
Output level	dBmV	--	22	25
Vout regulation	dBmV	--	-3 ... 22	0 ... 25
Manual regulation per filter	dB	--	-3 ... 3	-3 ... 3
Noise figure	dB	--	2.8	2.8
Powering per inputs	Vdc		12	
Max current input	mA		70	
Max. current	mA		800	
Connectors			"F" female	
Protection index (IP)			23	
Operating temperature	°F		23 ... 113	
PSU frequency range TV-MIX	MHz		47 ... 862	
PSU frequency range SAT-MIX	MHz		950 ... 2150	
PSU output voltage	Vdc		12	
Max PSU output current	mA		800	
PSU insertion losses	dB		< 2	
PSU input voltage	Vac		220 ... 230	
Max PSU current input	mA		130	
Max. PSU power consumption	W		14	
PSU protection index			23	
PSU operating temperature	°F		23 ... 113	

*¹ @20MHz

*² With adjacent channels: 28dB (@1MHz) // Without adjacent channels: 12 dB (@8MHz)

*³ With adjacent channels: 28dB (@1MHz) // Without adjacent channels: 12 dB (@8MHz)