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dCSS SmartKom intelligent amplifier Autoprogramming, or manual programming via Bluetooth® (ASuite)

Filters, mixes, amplifies and balances at the touch of a button

Compact and intelligent amplifier with digital channel processing, designed for installation indoors in family-houses. Equipped with 3 inputs to amplify terrestrial signals (VHF+UHF) in which each channel can be individually filtered by any of the 32 available programmable filters. In addition, it includes inputs for mixing satellite and FM radio signals.

The device can be remotely powered through its output connector, connected to a domestic power supply inserted in the installation or through the trunk lines in a distribution installation with dCSS MSW already powered. It also allows local power supply through an external power supply (Ref. 732101 recommended) by Jack connection.

The autoprogramming function of the amplifier gives this device the ability of programming and adjusting by itself simply by pressing a button. In addition, thanks to the built-in Bluetooth® antenna, manual or automatic programming of the amplifier can be done wirelessly using a smartphone or tablet, with the ASuite application.

RED compliant

Ref.531920

Art.Nr	SMARTKOMINV
EAN13	8424450271940

Highlights

- "All-in-one" device: it 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

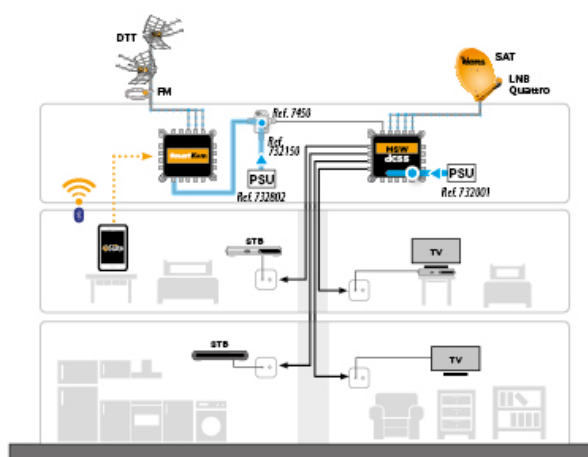
- Plug&Play: the amplifier automatically program and adjusts the channel level by pressing the autoprogramming button. In addition, SmartKom automatically powers the antenna in case the signal requires it
- Digital processing of the channels: a perfect balance of signal level between different channels is obtained at the output
- Automatic gain regulation of signal in each filter (AGC)
- High selectivity digital filters (28dB@1MHz)
- SAW filter (Surface Acoustic Wave) included for high rejection of 4G/5G telephone interferences
- Remote powering through the output coaxial connector connected to a domestic power supply inserted in the installation or through the trunk lines in a distribution installation with dCSS MSW already powered, or local powering through an external power supply by Jack connection
- Wireless manual or automatic programming (via **Bluetooth®**) through a smartphone or tablet with the ASuite app

Main features

- Secure configuration: in case of electrical failure SmartKom saves the current configuration, avoiding configuring it again
- High output level
- "F" type connectors
- LEDs indicators displaying both adjustment and programming status on the amplifier
- High shielding chassis, made of Zamak
- 100% European design and manufacturing: fully automated manufacturing, subject to the most stringent quality controls

Application example

(Click to see the picture)



Installation of a SmartKom together with a dCSS Multiswitch

The SmartKom is installed at the house headend, indoors, together with the dCSS multiswitch. The output signal from the SmartKom is then inserted into the multiswitch, to combine it with the satellite signal to offer a complete signal distribution to all rooms in the home. The SmartKom can be powered locally using an external power supply unit (Ref. [732101](#)), or remotely by introducing a power injector (Ref. [7450](#)) between the SmartKom and the dCSS multiswitch.

Technical specifications

Inputs/Bands		3x VHF+UHF	FM	SAT
Frequency range	MHz	174-230/470-694	87,5-108	950-2150
Input dynamic range	dB μ V	40-80	-	-
Maximum gain	dB	45	-1	-2
Gain regulation	dB	CAG	-	-
Number of filters		32	-	-
Channels per filter		1	-	-
Channel/filter programming		5-12 (VHF) 21-48 (UHF)	-	-
Filtered channel level regulation		AGC per filter	-	-
Selectivity	dB	28/12 @1MHz*	>20 @20MHz	>40 (@87-694MHz)
Output level	dB μ V	82 (VHF) 85 (UHF)	-	-
Vout regulation	dB μ V	57-82 (VHF) 60-85 (UHF)	-	-
Manual regulation	dB	\pm 3	-	-
Noise figure	dB	7 (VHF) 6 (UHF)	-	-
Powering inputs	Vdc	12 (AUTO/ON/OFF)	-	12
Max. consumption inputs	mA	70	-	500
Max. consumption	mA	500 (@12V w/o DC IN)		
Protection index	IP	23		
Operating temperature	°C	-5 ... +45		

*With adjacent channels: 28dB // Without adjacent channels: 12 dB