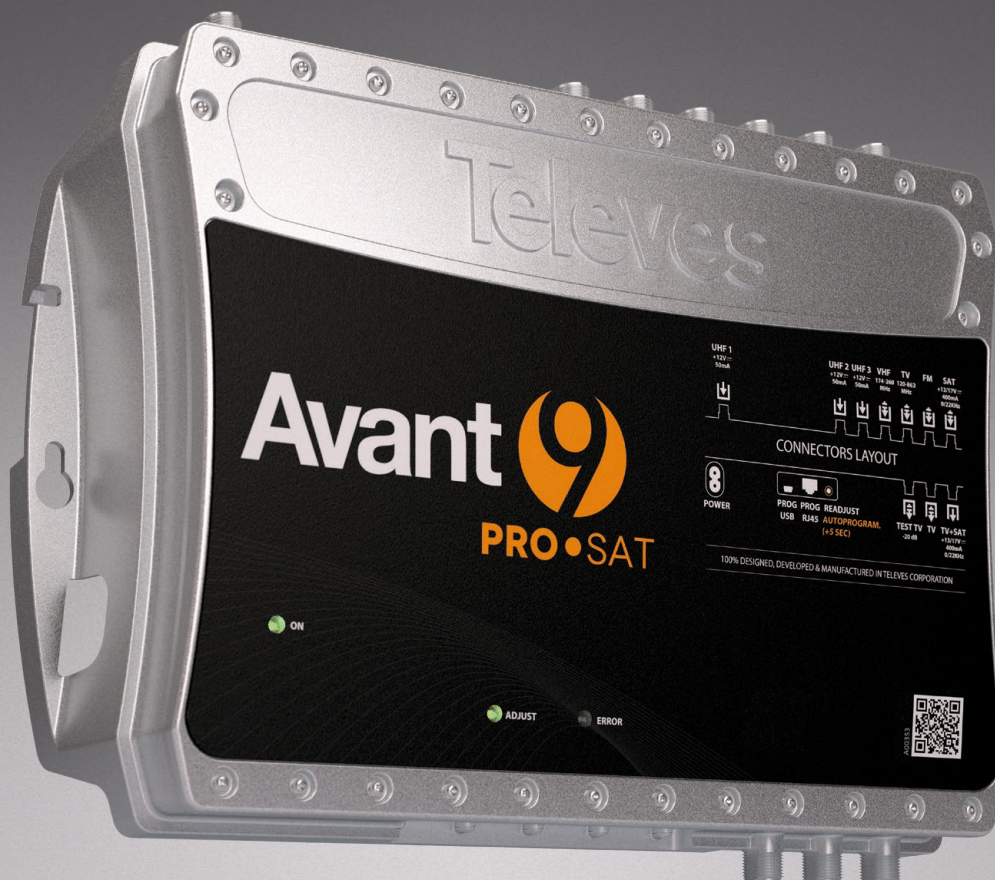




PROGRAMMABLE HEADEND AMPLIFIER FOR MATV & SMATV



**SMALL AND
LIGHT-WEIGHT**
273 X 203 X 57 mm



**HIGH REJECTION
TO ADJACENT
CHANNELS**



**POWER
CONSUMPTION
25% REDUCTION**



**MANUFACTURED
IN EUROPE**



BEYOND YOUR EXPECTATIONS

CHOOSE THE PROGRAMMING MODE YOU WISH...



WITH OUR CLASSIC
UNIVERSAL PROGRAMMER



A SIMPLE AND INTUITIVE APPLICATION
FOR ANDROID AND PC
USB connection (OTG cable)



PERFORM
AUTOMATIC PROGRAMMING
WITH ONLY A BUTTON*



PDF Report
generation
*

*[PRO VERSION]



100% Designed, Developed & Manufactured in Televes Corporation
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Televes

DESCRIPTION

The Avant 9 unit is a programmable multi-band amplifier, which main mission is to achieve a **programmable amplification and balance** of different RF input signals.

- **UHF inputs:** the channels present in these inputs can be **filtered and adjusted using up to 10 filters**. Each filter can be tuned on any of UHF channel (21 to 60) and its bandwidth can contain up to 7 channels.

The disposition of these **10 filters** is **configurable** based on the number of channels present on each UHF input.

The output level is programmable between 100 and 115dBμV for one-output options (BASIC and PRO), and between 96 and 111dBμV for two-output options (BASIC SAT and PRO SAT). Furthermore, an **equalization** slope of up to 5 dB can be programmed at the output.

- You can choose whether to enable an **FM input** or not. Should this input be enabled, it will be amplified and its output level set to 10dB below the lowest-level UHF channel (taking into account the equalization slope).

- **VHF input:** a VHF input can also be enabled. But in this case, its signal level will be 3 dB below the lowest-level UHF channel.

- **IF input:** satellite input can be assigned an attenuation between 0 and 30dB, and an equalization between 0 and 15dB. **The LNB can be configured** to be REMOTELY (user STB) or LOCALLY powered by enabling the 22kHz tone and configuring the supply voltage value to 13V or 17V.



- **Output signal** automatic adjustment
- **High output power**
- **Multiple channel / inputs** combinations
- Up to **10 programmable filters** from 1 to 7 channels
- **High adjacent channel rejection** (>30dB)
- Two power supply modes on the SAT input: **local or remote**
- **Led displays** show both unit and signal status

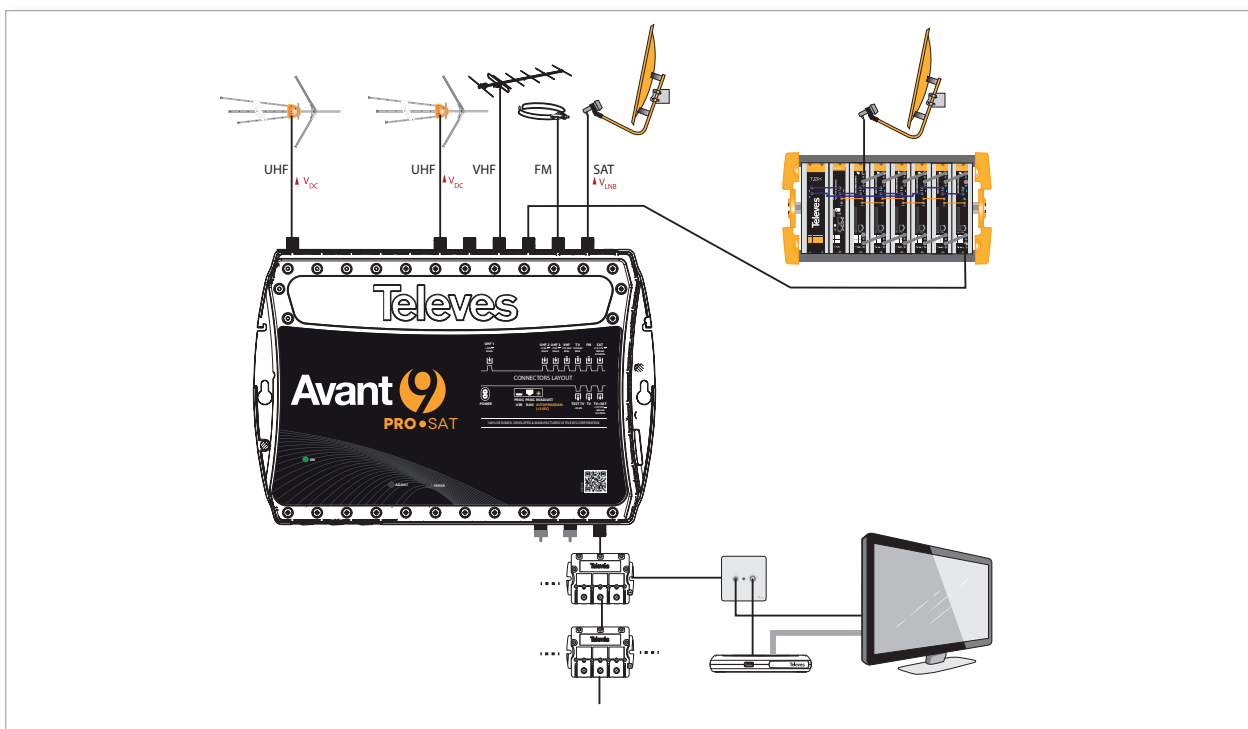
REF.	DESCRIPTION	EAN 13
532001	Avant9 Basic (FM-VHF-MATV-UHF-UHF)	8424450181553
532011	Avant9 Basic SAT (FM-VHF-MATV-UHF-UHF-FI)	8424450181522
532021	Avant9 Pro (FM-VHF-MATV-UHF-UHF-UHF)	8424450181539
532031	Avant9 Pro SAT (FM-VHF-MATV-UHF-UHF-UHF-FI)	8424450181546

The new AVANT9 multiband amplifier offers a full product range to meet your requirements

	BASIC	PRO
UHF Inputs	2	3
Self programming	-	✓
VHF monitoring	-	✓
UHF monitoring	-	✓
Report production	-	✓

IT STANDS OUT FOR

- Configuration and adjustment using **ASuite** application for **Android or Windows**
- Zamak chassis providing **high shielding effectiveness**
- The product range consists of **four references**
- New size, more **compact and light-weight**
- PRO versions include three new functions:
 - **Self-installation:** channel search and self-adjustment
 - **Signal level and SNR (Signal to Noise Ratio) monitoring**
 - **Installation report generating** (PDF file)
- **Energy-efficient** thanks to its low power consumption: up to 25% lower than previous models
- **Easy-to-replace** power supply



Three programming options are available for the multiband amplifier:

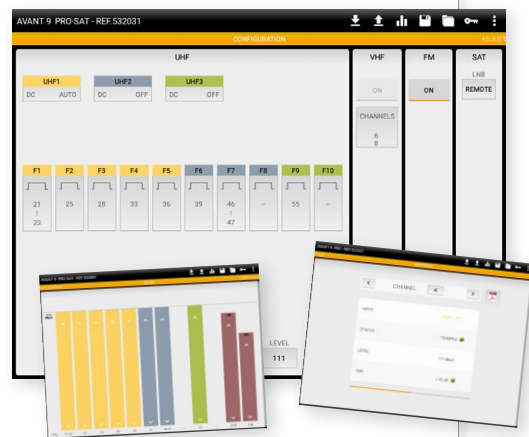


App ASuite for PC or tablet / Android smartphone, via USB connection (OTG cable included):



The multiband amplifier configuration is performed in a friendly and intuitive environment. A configuration can be defined and stored, even when not connected to the multiband amplifier; this configuration can be retrieved later for installation and adjustment.

Furthermore, for PRO versions, the application allows the monitoring of channel quality parameters and the generating of an installation report that includes the configuration applied.



Universal programmer (ref. 7234):

The unit is compatible with the programmer, ensuring backwards compatibility.



Automatic programming by means of the "AUTO-PROGRAMMING" button (press and hold) of the multiband amplifier itself:

Thanks to a tuner that is able to detect DVB-T channels for UHF and VHF inputs, the unit performs an automatic programming of the filters when executing this option, as well as the appropriate tuning to avoid intermodulation.

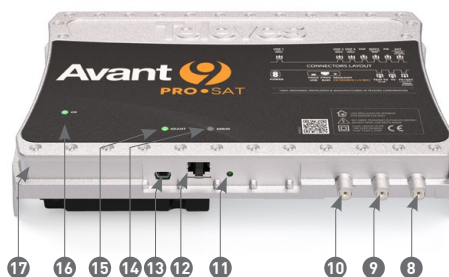
By pressing the **READJUST button** (short press), the unit readjusts to the stored configuration values.

Once tuned, a manual **fine tuning** on the multiband amplifier to slightly adjust the UHF, VHF and FM filters' gain.

		AVANT 9							
Inputs		UHF1.	UHF2.	UHF3 (*)	BIII / DAB	120 - 862 MHz		FM	FI SAT (**)
Band	MHz	470 - 790			174 - 260	VHF	UHF	87 - 108	50 - 2150
Maximum gain	dB	55(BASIC) / 51(PRO)			49 (BASIC) / 45 (PRO)	40 (BASIC) / 36 (PRO)	41 (BASIC) / 37 (PRO)	34 (BASIC) / 30 (PRO)	45
Filter configuration	No.	10	0	0	-	-	-	-	-
		9	0	1	-	-	-	-	-
		8	0	2	-	-	-	-	-
		7	3	0	-	-	-	-	-
		7	2	1	-	-	-	-	-
		7	1	2	-	-	-	-	-
		6	4	0	-	-	-	-	-
		6	3	1	-	-	-	-	-
		6	2	2	-	-	-	-	-
		5	5	0	-	-	-	-	-
		5	4	1	-	-	-	-	-
		5	3	2	-	-	-	-	-
Number of channels per filter	No.	0 - 7			-	-	-	-	-
Slope	dB	0 - 5			-	-	-	-	0 - 15
Optimum input margin	dBμV	60 - 105			63 - 88	72	74	71 - 96	65 - 95
Gain regulation	dB	0 - 20			0 - 25/OFF	-	-	0 - 25/OFF	0 - 30
Manual regulation	dB	±5 per filter			±5	-	-	±5	-
Output level (DIN45004B)	dBμV	122 (BASIC) / 118 (PRO)			122 (BASIC) / 118 (PRO)	122 (BASIC) / 118 (PRO)		122 (BASIC) / 118 (PRO)	-
Output level (EN50083 IMD3 2CH -36dB)	dBμV	126 (BASIC) / 122 (PRO)			126 (BASIC) / 122 (PRO)	126 (BASIC) / 122 (PRO)		126 (BASIC) / 122 (PRO)	123
Programmable output levels	dBμV	100 - 115 (BASIC) / 96 - 111 (PRO)			97 - 112 (BASIC) / 93 - 108 (PRO)	97 - 112 (BASIC) / 93 - 108 (PRO)	100 - 115 (BASIC) / 96 - 111 (PRO)	90 - 105 (BASIC) / 86 - 101 (PRO)	-
TEST output	dB	-20							
Noise figure	dB	10			10	-	-	10	9
Rejection	dB	>30 (±16MHz)			>20 (470MHz)	-	-	>20 (±20MHz)	>40 (87 - 862 MHz)
Power supply inputs	VDC	12 (AUTO/ON/OFF)			-	-	-	-	13/17 (22kHz / 0kHz)
Maximum current per input	mA	50 (auto)			-	-	-	-	400 (remote) / 200 (local)
Voltage / RED frequency	Vac / Hz	196 - 254 / 50 - 60							
Maximum power	W	18,3 (ref.532031) / 11,4 (ref.532021) / 17,4 (ref.532011) / 10,4 (ref.532001)							
Maximum operating temperature	°C	45							
Weight	g	1620							
Dimensions	mm	273 x 203 x 57							
Protection index	IP	20							

(*) PRO versions only

(**) SAT version only



- 1 UHF1 input (+12Vdc_50mA)
- 2 UHF2 input (+12Vdc_50mA)
- 3 UHF3 input (+12Vdc_50mA)
- 4 VHF input
- 5 MATV input
- 6 FM input
- 7 SAT input (+13/17Vdc_400mA, 0/22kHz)**
- 8 TV+SAT output (+13/17Vdc_400mA, 0/22kHz)
- 9 TV output
- 10 TV Test output
- 11 READJUSTMENT
- 11 READJUSTMENT + CH SEARCH*
- 12 RJ45 PROG
- 13 USB PROG
- 14 ERROR LED
- 15 ADJUSTMENT LED
- 16 POWER LED
- 17 Power supply connector

* PRO versions only

** SAT versions only