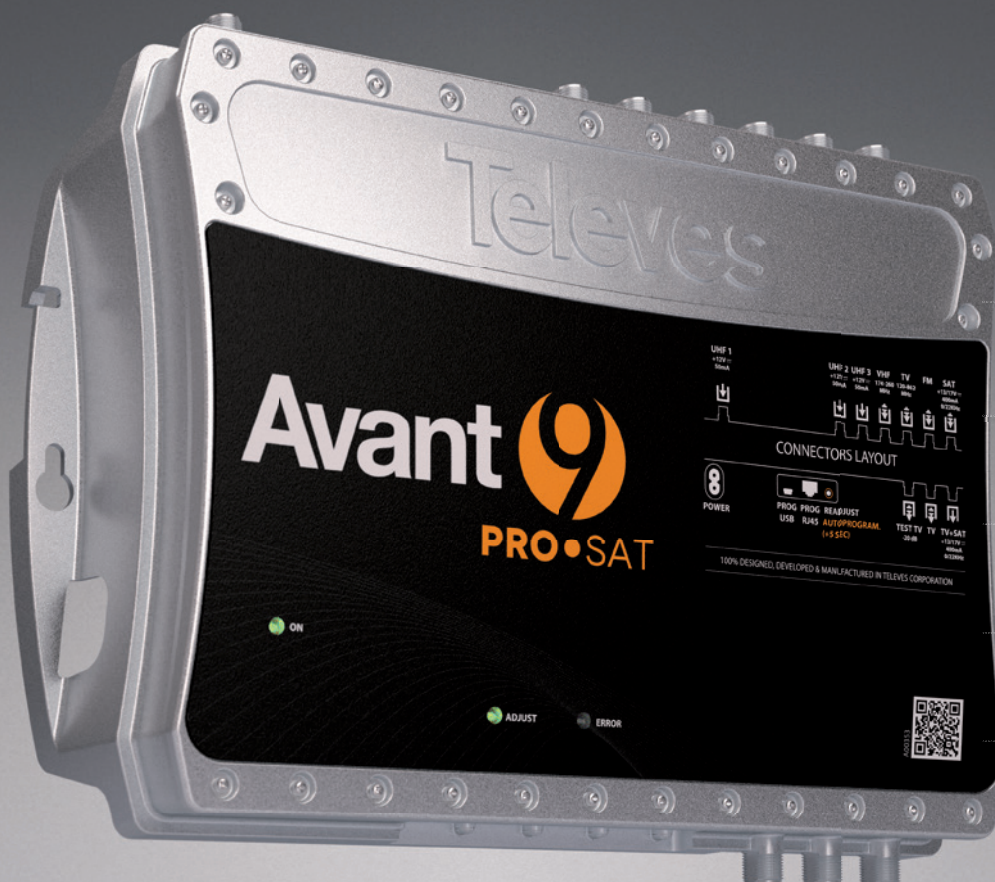




PROGRAMMABLE HEADEND AMPLIFIER FOR MATV & SMATV



**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...



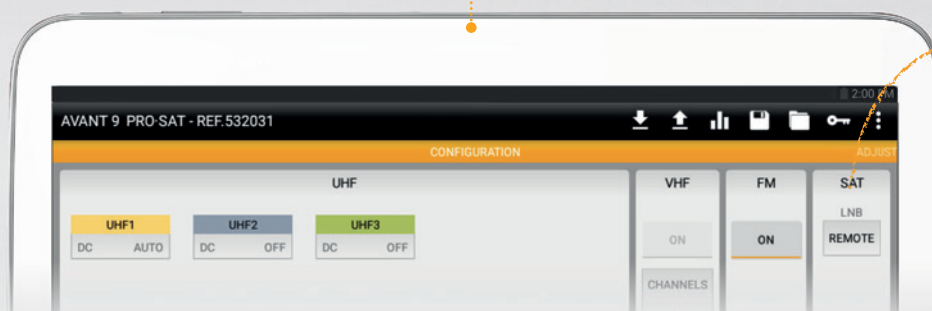
WITH OUR CLASSIC
UNIVERSAL PROGRAMMER



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



PERFORM
AUTOMATIC PROGRAMMING
WITH ONLY A BUTTON*



*(PRO VERSION)



100% Designed, Developed & Manufactured in Televes Corporation
televescorporation ■ televes.com ■ televes@televes.com ■ en.televes.com/avant9

Televes

DESCRIPTION

The Avant 9 unit is a programmable multiband 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.

In the case of 532022, the change in the UHF frequency range is automatic, through its filters, the programable amplifier switch between LTE700 (470...694MHz) and LTE790 (470...698MHz) adapting to the new digital dividends.

FM INPUT: 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
- Automatic band adjust LTE700/790 (only ref. 532022)
- 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.

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	-	✓

HIGHLIGHTS

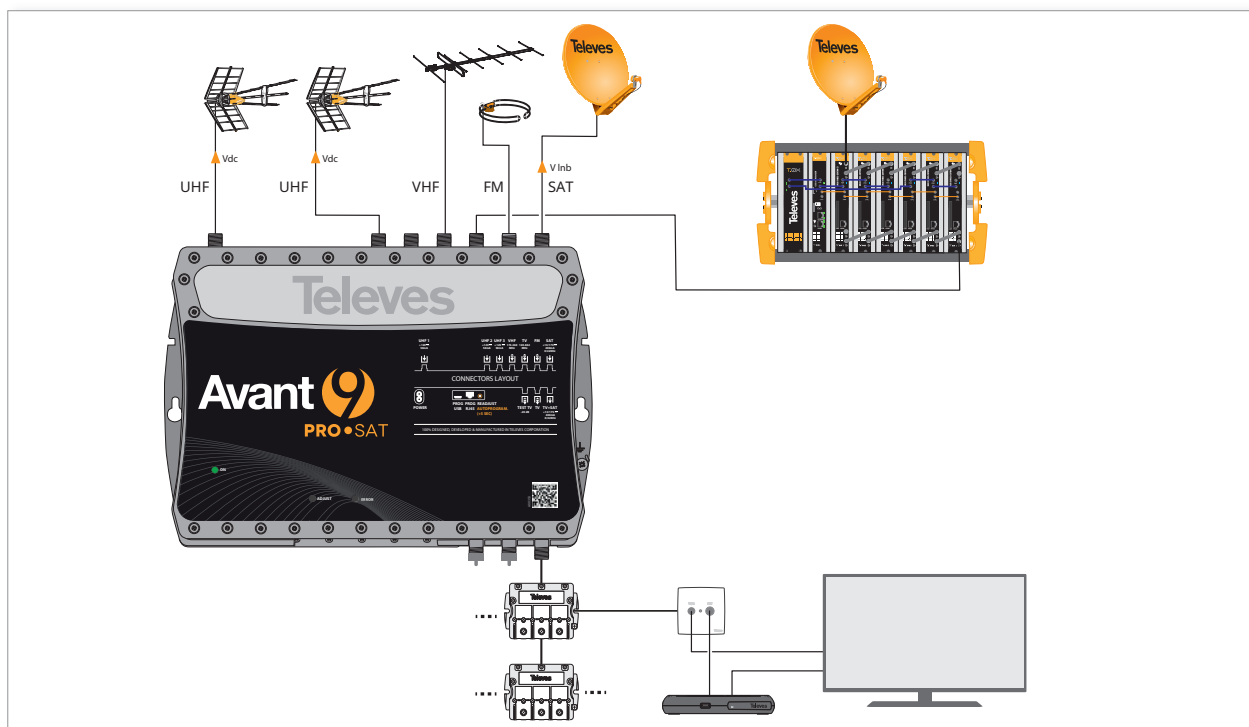
- Configuration and adjustment using ASuite application for Android or Windows
- Zamak chassis providing high shielding effectiveness
- The product range consists of five references
- New size, more compact and light-weight
- Automatic change from LTE700 to LTE790 (ref.532022)
- PRO versions include 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

SCAN TO SEE THE VIDEO



EN.TELEVES.COM/AVANT9

REF.	DESCRIPTION		EAN 13
532001	Avant9 Basic (FM-VHF-MATV-UHF-UHF)	LTE790	8424450181553
532011	Avant9 Basic SAT (FM-VHF-MATV-UHF-UHF-FI)	LTE790	8424450181522
532021	Avant9 Pro (FM-VHF-MATV-UHF-UHF-UHF)	LTE790	8424450181539
532031	Avant9 Pro SAT (FM-VHF-MATV-UHF-UHF-UHF-FI)	LTE790	8424450181546
532022	Avant9 Pro LTE700/790 (FM-VHF-MATV-UHF-UHF-UHF)	LTE790 LTE700	8424450186831



■ Three programming options are available for the multiband amplifier:

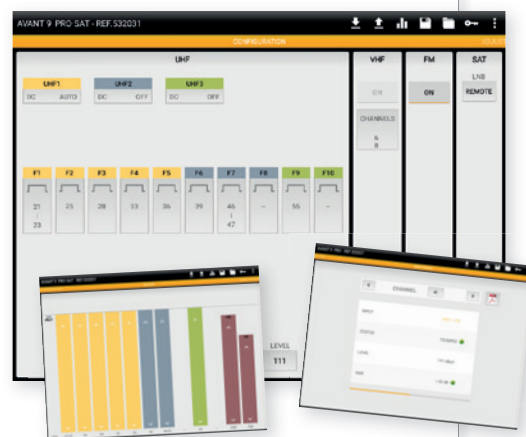


App ASuite for PC or tablet / Android smartphone, via USB connection (OTG cable included):



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:

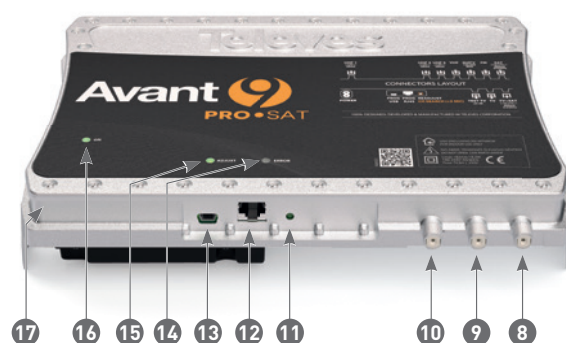
Thanks to a tuner that is able to detect DVB-T channels for UHF and VHF inputs, the unit performs an automatic programming of the filters when executing this option, as well as the appropriate tuning to avoid intermodulation.

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.

BEYOND YOUR EXPECTATIONS

DESCRIPTION

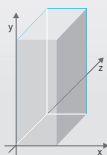


- | | | |
|-----------------------------|---|---------------------------|
| 1 UHF1 Input (+12Vdc_50mA) | 7 SAT Input (+13/17 Vdc_400 mA, 0/22 kHz) ** | 12 RJ45 Prog. |
| 2 UHF2 Input (+12Vdc_50mA) | 8 TV+SAT Output (+13/17 Vdc_400 mA, 0/22 kHz) | 13 USB Prog. |
| 3 UHF3 Input (+12Vdc_50mA)* | 9 TV Output | 14 Error LED |
| 4 VHF Input | 10 Test TV Output | 15 Adjustment LED |
| 5 MATV Input | 11 Readjustment | 16 Power LED |
| 6 FM Input | 11 Readjustment + Ch search* | 17 Power supply connector |

* PRO versions only
** SAT versions only

AVANT9: PROGRAMMABLE HEADEND AMPLIFIER FOR MATV & SMATV

		AVANT 9							
TECHNICAL CHARACTERISTICS	Inputs	UHF1	UHF2	UHF3 (*)	BIII / DAB	120 - 862 MHz		FM	FI SAT (**)
	Band	MHz				VHF	UHF		
		470 - 790 470...697/790 (***)			174 - 260			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 (PRO)	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	-	-	-	-
		Nº (BASIC)	5	4	1	-	-	-	-
			5	3	2	-	-	-	-
			10	0	-	-	-	-	-
			9	1	-	-	-	-	-
			8	2	-	-	-	-	-
			7	3	-	-	-	-	-
			6	4	-	-	-	-	-
			5	5	-	-	-	-	-
	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
	Gain regulation	dB	0 - 20			0 - 25/OFF	-	-	0 - 25/OFF
	Manual regulation	dB	±5 per filter			±5	-	-	±5
	Output level	dBµV ¹	122 (BASIC) / 118 (PRO)			122 (BASIC) / 118 (PRO)	122 (BASIC) / 118 (PRO)		122 (BASIC) / 118 (PRO)
	Output level	dBµV ²	126 (BASIC) / 122 (PRO)			126 (BASIC) / 122 (PRO)	126 (BASIC) / 122 (PRO)		126 (BASIC) / 122 (PRO)
	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
	Rejection	dB	>30 (±16 MHz)			>20 (470 MHz)	-	-	>20 (±20 MHz)
	Power supply inputs	Vdc	12 (AUTO/ON/OFF)			-	-	-	13/17 (22 kHz / 0 kHz)
	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, 532022) / 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						



AUGUST 2017

- * PRO versions only.
- ** SAT versions only.
- *** AUTO, only ref.532022.
- 1 DIN45004B.
- 2 EN50083 IMD3 2CH-36dB.