



AVANT 12 PRO SAT programmable multiband amplifier for terrestrial/satellite, 32 digital filters and auto/advanced programming via ASuite (Bluetooth®)

Multi-input multiband amplifier, perfect for individual or MDU (Multi Dwelling Unit) terrestrial installations, that allows individual programming of channels available on 4 VHF+UHF (DTT) inputs, in a total of 32 digital filters. The multiband amplifier has 6 inputs, configurable in 2 distribution modes: FM-4x[VHF+UHF]-IF or FM-DAB-3xUHF-IF, and can achieve programmable amplification and balancing of the different RF inputs. It offers 2 outputs, one for only terrestrial signal and one with mixed terrestrial+satellite signals. In addition, it includes 4G/5G filtering, making the device discriminate by itself the programming of the filters up to channel 48 (LTE700).

Thanks to the built-in **Bluetooth®** antenna, it is possible to carry out advanced programming of the multiband amplifier wirelessly from a smartphone or tablet (Android/iOS), with the **ASuite** application. With this application, the professional user can perform a wide range of functions:

- Channel filter programming
- Channel level autoadjust for balancing all filters

- Manual fine-adjust after the autoadjust for each channel separately
- User Bands configuration for a dynamic dLNB
- Activation of the antenna powering
- Import/export configurations

In addition, the PRO model also includes an **autoprogramming** function, executable from **ASuite**, with which the device uses its intelligence and programs itself, searching and selecting the most outstanding channels and, afterwards, balancing the signal level between them. This model also allows monitoring of the VHF/UHF signal and generation of an installation report (PDF file).

RED compliant

Ref.	532204
Logical ref.	AVANT12PROS
EAN13	8424450320488

Packaging info

Box	1 pcs.
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Physical data

Net weight	982.00 g
Gross weight	1,150.00 g
Width	201.00 mm
Height	120.00 mm
Depth	42.00 mm
Main product	924.00 g

Highlights

- With the **ASuite** application, advanced programming of the device can be carried out wirelessly (**Bluetooth®**), easily and conveniently from a smartphone or tablet (Android/iOS)
- Single device with **2 distribution modes**: 4 inputs support VHF/UHF, or one input is for DAB and the other 3 for UHF
- **High output level**: up to 124dBµV (DIN45004B), to reach a large number of outlets
- **Autoprogramming**: with this function available in ASuite, the device performs channel assignment and level adjustment by itself, as well as activating the antenna powering when it detects that the signal requires it
- Up to **32 individually programmable filters**, with individual digital filtering of each channel, including adjacent channels
- **Digital processing of the channels**, resulting in a perfectly balanced signal level between the different channels at the output
- **Automatic signal regulation** in each filter (AGC). Also allows fine adjust of the output level after regulation
- **High selectivity** VHF/UHF digital filters: >30dB rejection (@ 1MHz)
- 32 User Band configuration of a **dynamic dLNB** via **ASuite**, for satellite installations with dCSS technology
- SAW (Surface Acoustic Wave) filter for **rejection of 4G/5G signals** from channel 48, with the best selectivity and stability
- **DVB-T and DVB-T2** compatible
- **TForce technology**: terrestrial signal level is always balanced and adjusted to the optimum value
- Power supply at the inputs for **antenna powering**, when the signal requires it. In addition, the LNB can be powered locally/remote via the IF input
- **LED status indicator** as well as physical autoadjust button built into the control panel
- High shielding chassis (Zamak) to **protect against electromagnetic interference**
- **Very light and compact size** for a high performance control unit (196x122x43mm)
- **100% European design and manufacture**: fully automated manufacturing and subjected to

rigorous quality controls

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. In addition, the selected channels can be processed, shifting them in frequency.

Autoprogramming



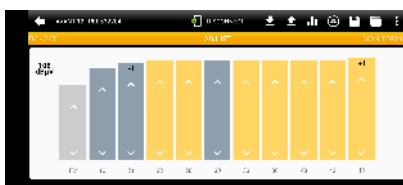
This function processes the channels at the inputs, selecting the most prominent ones and assigning a filter to each of them. Afterwards, it performs an autoadjust to balance the signal level of the filtered channels. All of this in less than 1 minute.

Channel level autoadjust



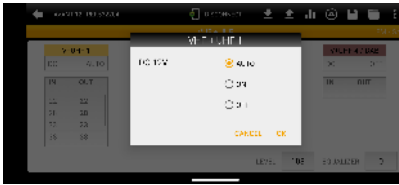
The signal level of each channel is automatically processed by the device, bringing out the maximum possible level and balancing all filtered channels, so that there are no signal fluctuations between them.

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



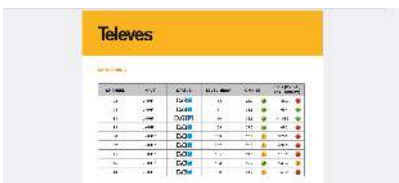
ASuite offers saving of configurations, as well as the loading of previously stored ones, saving time to the professional in the installation.

Monitoring of DVB-T/T2 parameters



ASuite can monitor specific parameters of DVB-T and DVB-T2 standards such as CNR, CBER or PER, and display them on the application in real time, for each filtered channel.

PDF report generation



The same monitored parameters can be listed in a report that the application generates and allows its download. The installer could have a detailed report, in PDF format, of the status of the installation at any time.

User Bands configuration for dCSS technology



For installations with dCSS technology, you can configure the list of up to 16 User Bands to be assigned to a dynamic dLNB connected to the SAT input of the device.

Technical specifications : Ref. 532204

Number of inputs				6	
Number of outputs				2	
Bands		FM	DAB	UHF	SAT
Frequency range	MHz	87 ... 108	174 ... 230	470 ... 694	950 ... 2150
Number of filters		--	1	32	--
Channels per filter		--	--	1	--
Gain	dB	25	71	74	41
Gain adjustment range	dB	0 ... 25	AGC	AGC	0 ... 30
Manual regulation after auto-adjustment	dB	-5 ... 5	-5 ... 3	-3 ... 3	--
Slope regulation	dB	--	--	0 ... 5	0 ... 15
Input level	dBµV	79 ... 104	40 ... 100	40 ... 100	69 ... 99
Output level DIN45004B	dBµV	120	120	120	--
Output level EN50083	dBµV	124	124	124	123
Programmable output level	dBµV	76 ... 104	83 ... 111	86 ... 114	--
Noise figure	dB	7	7	6	--
Selectivity	dB	> 20	> 65	> 65	> 40
Powering per inputs	Vdc	0	12	12	0
Max current input	mA	0	70	70	0
Powering LNB	Vdc			13 ... 17	
Max. local current for LNB	mA			350	
Max. remote current for LNB	mA			400	
Input voltage	Vac			110 ... 230	
Mains frequency				50 Hz / 60 Hz	
Max. current	mA			399	
Max. power consumption	W			26.9	
Protection index (IP)				20	
Operating temperature	°C			-5 ... 45	