



AVANT 12 Lite programmable multiband amplifier for terrestrial, 20 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 2 VHF+UHF (DTT) inputs, in a total of 20 digital filters. The multiband amplifier has 4 inputs: FM-DAB-2xUHF, and can achieve programmable amplification and balancing of the different RF inputs. 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
- Activation of the antenna powering
- Import/export configurations

In addition, it 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.

RED compliant

Ref.	532210
Logical ref.	AVANT12LITE
EAN13	8424450329986

Packaging info

Box	1 pcs.
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Physical data

Net weight	982.00 g
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Gross volume	3.30 dm ³
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Gross weight	1,150.00 g
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Width	201.00 mm
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Height	120.00 mm
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Depth	42.00 mm
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Main product weight	924.00 g
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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 amplifier with **3 inputs**: 2 inputs support VHF/UHF and the other for FM
- **High output level**: up to 114dB μ V (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 **20 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)
- 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
- **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

Application example

Collective installation for DTT Signal Reception

This MDU is equipped with two UHF terrestrial antennas and one DAB antenna. It also features an omnidirectional FM radio antenna. The Avant 12 Lite amplifier is installed immediately after the receiving antennas and programmed to receive, filter, adjust, and combine the signals from all antennas into a single cable for distribution.

The output from the Avant feeds into the MDU's main trunk line through a single

coaxial cable. From there, the processed and amplified TV signal is distributed to all units.



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 20.

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. 532210

Max. number of filters			20	
Bands		FM	VHF	UHF
Frequency range	MHz	87 ... 108	174 ... 230	470 ... 694
Channels per filter		--	--	1
Gain	dB	17	52	55
Gain adjustment range	dB	0 ... 25	AGC	AGC
Manual regulation per filter	dB	-5 ... 5	-3 ... 3	-3 ... 3
Slope regulation	dB	--	--	0 ... 5
Input level	dBmV	16 ... 41	17 ... 42	20 ... 45
Output level DIN45004B	dBmV	44	51	54
Output level EN50083	dBmV	51	58	61
Programmable output level	dBmV	10 ... 35	77 ... 102	20 ... 45
Noise figure	dB	7	6	6
Selectivity	dB	> 20	> 65	> 65
Inputs		FM		VHF+UHF
Number of inputs		1		2
Frequency range CHs input	MHz	87 ... 108		174 ... 694
Frequency range CHs output	MHz	87 ... 108		174 ... 694
Powering per inputs	Vdc	--		12
Max current input	mA	--		70
Input voltage	Vac		220 ... 230	
Mains frequency			50 Hz / 60 Hz	
Max. current	mA		87	
Max. power consumption	W		7.5	
Protection index (IP)			20	
Operating temperature	°F		23 ... 113	