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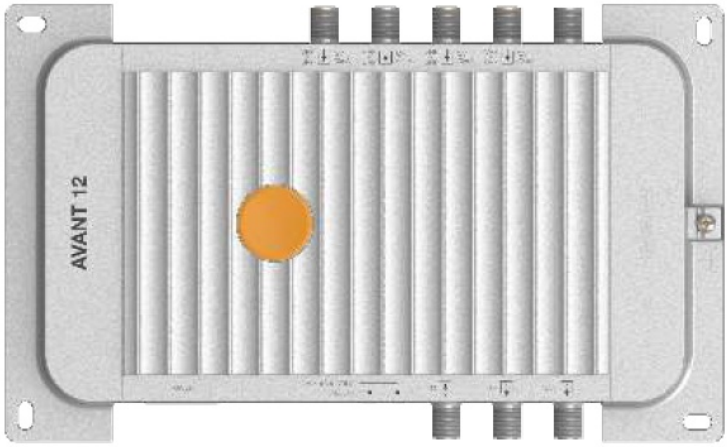
Televes AVANT12 Multi Input Multiband Amplifier



AVANT 12 programmable multiband amplifier for terrestrial, 32 digital filters and 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 5 inputs, configurable in 2 distribution modes: FM-4x[VHF+UHF] or FM-DAB-3xUHF, 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 auto-adjust for balancing all filters
- Manual fine-adjust after the auto-adjust for each channel separately
- Activation of the antenna powering
- Import/export configurations

Ref.	532201
Logical ref.	AVANT12
EAN13	8424450318997

Packaging info			**Physical data**	
Box	1 pcs.		**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 weight	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 124dBuV (DIN45004B), to reach a large number of outlets
- 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)
- 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
- Force 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

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.

Channel level auto-adjust

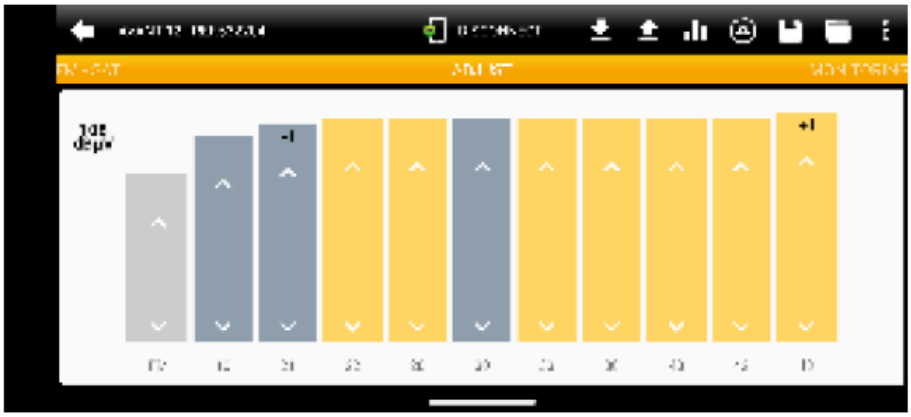
The signal level of each channel is automatically processed by the device, bringing out the maximum possible level and balancing all filtered channels, so that there are no signal fluctuations between them.

Channel filter programming

Channel level autoadjust

Channel level manual fine adjustment

ASuite allows a further adjustment of ± 3dB 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.

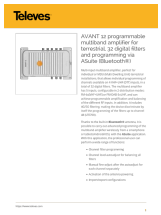
Antenna power supply switching

Import/Export configurations

Technical specifications

Number of inputs		5		
Number of outputs		1		
Bands		FM	DAB	UHF
Frequency range	MHz	87 ... 108	174 ... 230	470 ... 694
Number of filters		--	1	32
Channels per filter		--	--	1
Gain	dB	29	75	78
Gain adjustment range	dB	0 ... 25	AGC	AGC
Manual regulation after auto-adjustment	dB	-5 ... 5	-5 ... 5	-3 ... 3
Slope regulation	dB	--	--	0 ... 5
Input level	dBmV	19 ... 44	-20 ... 40	-20 ... 40
Output level DIN45004B	dBmV	64	64	64
Output level EN50083	dBmV	68	68	68
Programmable output level	dBmV	20 ... 48	27 ... 55	30 ... 58
Noise figure	dB	7	7	6
Selectivity	dB	> 20	> 65	> 65
Powering per inputs	Vdc	0	12	12
Max current input	mA	0	70	70
Input voltage	Vac	220 ... 230		
Mains frequency		50 Hz / 60 Hz		
Max. current	mA	179		
Max. power consumption	W	15.1		
Protection index (IP)		20		
Operating temperature	°F	23 ... 113		

Documents / Resources

	Televes AVANT12 Multi Input Multiband Amplifier [pdf] User Manual 532201, AVANT12, AVANT12 Multi Input Multiband Amplifier, AVANT12, Multi Input Multiband Amplifier, Multiband Amplifier, Amplifier

References

- User Manual

Televes

532201, Amplifier, AVANT12, AVANT12 Multi Input Multiband Amplifier, Multi Input Multiband Amplifier, Multiband Amplifier, Televes

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