



Televes 532103 Basic Programmable Multiband Amplifier Instructions

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Televes 532103 Basic Programmable Multiband Amplifier



Product Information

Specifications

- **Product Name:** AVANT X Basic programmable multiband amplifier
- **Signal Type:** Terrestrial signals
- **Number of Filters:** 32 digital programmable filters
- **Compliance:** RED compliant
- **Reference:** Logical ref. EAN13 532103 AVANTXB-DD2 8424450223949
- **Website:** <https://www.televes.com>
- **Packing:** Box (1 pcs.)
- **Physical Data:**
 - **Net Weight:** 841.00 g
 - **Gross Weight:** 841.00 g
 - **Width:** 226.00 mm
 - **Height:** 120.00 mm
 - **Depth:** 53.00 mm
 - **Main Product Weight:** 920.00 g

Product Usage Instructions

Inputs Configuration

The AVANT X amplifier has configurable inputs that can be set in two modes:

- **Mode 1:** 4 inputs support VHF/UHF signals.
- **Mode 2:** One input is for DAB and the remaining three are for UHF signals.

Automatic Balancing

- The amplifier automatically balances the output level and equalization slope based on the programmed settings.

High Output Power

- The AVANT X amplifier provides high output power for optimal signal amplification.

Allocation of Filters

- The filters can be allocated to inputs without any restraints, allowing for flexible signal management.

Powering Options

- The AVANT X amplifier can power pre-amplifiers or BOSS (Built-in Output Signal System) systems for enhanced signal performance.

LED Indicators

- The amplifier features LED indicators that display both the unit and signal statuses for easy monitoring.

Power Supply Replacement

- The power supply of the AVANT X amplifier is easy to replace when needed.

FAQ

Q: What are the programming options provided by the AVANT X amplifier?

- **A:** The AVANT X amplifier provides three different programming options. Please refer to the user manual for detailed instructions on choosing the desired programming mode.

Q: Can the FM input be enabled or disabled?

- **A:** Yes, the FM input can be enabled or disabled. When enabled, it will be amplified and its output level will be set to 10 dB below the lowest-level UHF channel.

Q: What are the configuration options for the satellite input (IF input)?

- **A:** For models equipped with SAT, the satellite input can be assigned an attenuation between 0 dB and 30 dB and an equalization between 0 dB and 15 dB.
- The LNB can also be configured to be remotely (user STB) or locally powered by enabling the 22 kHz tone and configuring the supply voltage value to 13 V or 17 V.
- AVANT X Basic programmable multiband amplifier for terrestrial signals, with 32 digital programmable filters

A new evolutionary stage

- Multi-input multiband amplifier, perfect for terrestrial individual or MDU (Multi-Dwelling Unit) installations, that allows programming up to 32 digital filters on 4 VHF+UHF inputs (DTT).

- The multiband amplifier is equipped with 5 inputs, allowing its configuration between 2 distribution modes: FM-4xVHF/UHF or FM-DAB-3xUHF, and can achieve programmable amplification and balancing of the different RF inputs.
- Thanks to ASuite, the multiband amplifier programming is very easy and intuitive using an Android or Windows application.
- The multiband amplifier can detect LTE signals and automatically set the filter to channel 48 (LTE700).

RED compliant

- **Ref:** 532103
- **Logical ref:** AVANTXB-DD2
- **EAN13:** 8424450223949

Technical Specification

Packing	
Box	1 pcs.

Physical data	
Net weight	841.00 g
Gross weight	841.00 g
Width	226.00 mm
Height	120.00 mm
Depth	53.00 mm
Main product weight	920.00 g

Highlights

- Digital processing technology implemented on terrestrial TV signals
- Up to 32 individually programmable filters: single channel digital filtering, even for adjacent channels (1 to 4 channels)
- Digital processing of channels: output channels can be frequency shifted
- Automatic signal adjustment in each filter (AGC): and output signal manual regulation
- UHF/VHF digital filters with high selectivity: 30dB rejection (@ 1MHz)
- SAW filters (Surface Acoustic Wave) against LTE interferences, with the best selectivity and stability

- Compatible with DVB-T and DVB-T2
- Force Technology: terrestrial signal level always stable and adapted to its optimum value
- Storage of several setups and cloning between different AVANT X models
- Zamak chassis provides high screening effect
- Light-weight and compact multiband amplifier with a wide range of features (225×120×55mm)
- Very easy configuration and adjustment using ASuite application for Android or Windows

Main features

- Inputs configurable in 2 modes: 4 inputs support VHF/UHF, or one of the inputs is for DAB and the remaining 3 for UHF
- Automatic balancing according to the programmed output level and equalization slope
- High output power
- Allocation of filters to inputs without restraints
- Powering of pre-amplifiers or BOSS system
- LED indicators displaying both unit and signal statuses
- Easy-to-replace power supply

Discover

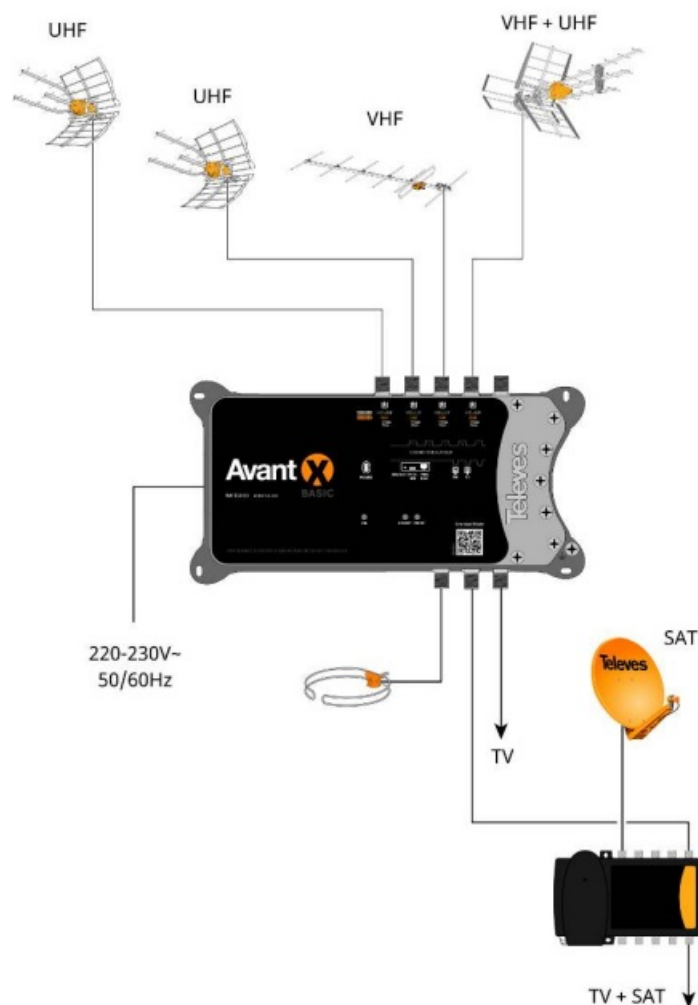
- **Avant X**: A new evolutionary stage
- **Avant X** is a full range of digital programmable multiband amplifiers, which main mission is to achieve a programmable amplification and balance of different RF input signals.
- VHF+UHF inputs: the channels present in these inputs can be filtered and adjusted using up to 32 digital filters. Each filter can be tuned to any VHF+UHF channel, and its bandwidth can comprise between 1 and 4 channels.
- The arrangement of the 32 filters is configurable based on the number of channels present on each VHF+UHF input. It's compatible with DVB-T and DVB-T2.
- The output level is programmable between 90-115dBuV for one-output options (BASIC and PRO), and between 86-111dBuV for two-output options (BASIC SAT and PRO SAT).
- Furthermore, an equalization slope of up to 5 dB can be programmed at the output.
- The FM input can be enabled or not. In case this input is enabled, it will be amplified and its output level set to 10 dB below the lowest-level UHF channel (taking into account the equalization slope).
- IF input (only for models equipped with SAT): satellite input can be assigned an attenuation between 0 dB and 30dB, and an equalization between 0 dB and 15dB.
- The LNB can be configured to be REMOTELY (user STB) or LOCALLY powered by enabling the 22 kHz tone and configuring the supply voltage value to 13 or 17 V.

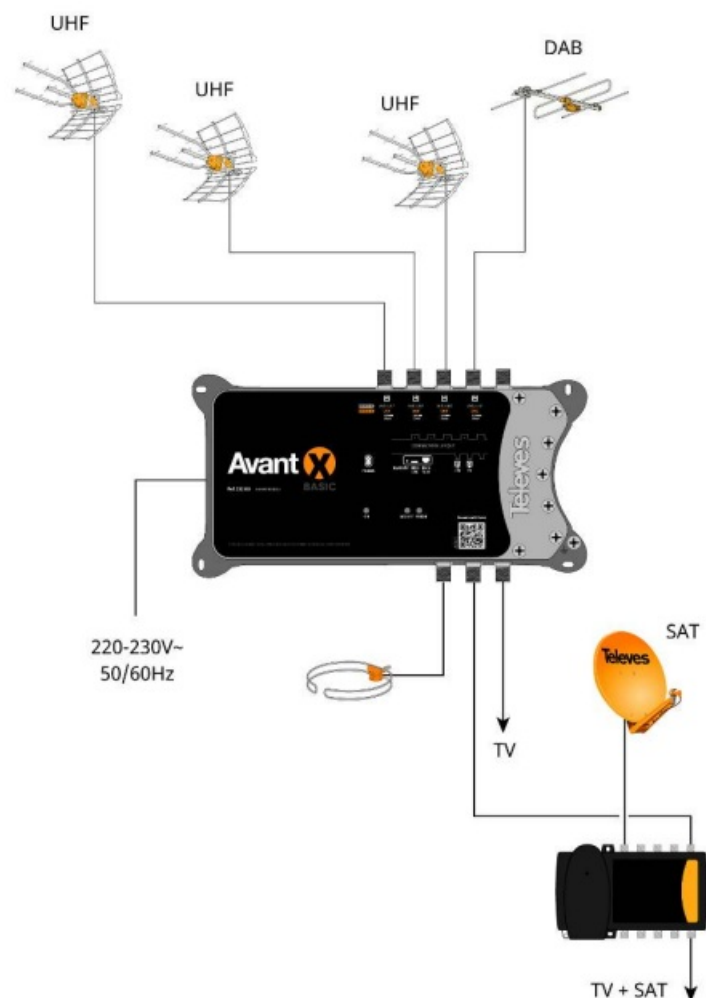
Choose the desired programming mode.

- Avant X provides three different programming options
- App ASuite for PC/Mac 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 without being connected to the multiband amplifier – only to retrieve it at installation and adjustment time.

- Furthermore, for PRO versions, the application allows the monitoring of the quality parameters and the production of an installation report describing the configuration used.
- 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 (PRO versions only):
- Thanks to a tuner that is able to detect DVB-T/T2 channels for UHF+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 is readjusted to the stored configuration values.
- After the multiband amplifier is adjusted, a manual fine tuning can be performed to slightly correct the VHF/UHF and FM filters' gain.

Application example





Technical specifications

Technical specifications: Ref. 532103

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	31
Channels per filter		--	--	1 ... 4
Gain	dB	29	75	75
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	dBµV	76 ... 101	40 ... 100	40 ... 100
Output level DIN45004B	dBµV	122	122	122
Output level EN50083	dBµV	126	126	126
Programmable output level	dBµV	80 ... 105	87 ... 112	90 ... 115
Noise figure	dB	7	7	6
Selectivity	dB	> 20	> 65	> 65
Powering per inputs	Vdc	--	12	12
Max current input	mA	--	70	--
Input voltage	Vac		220 ... 230	
Mains frequency			50 Hz / 60 Hz	
Max. current	mA		130	
Max. power consumption	W		14	
Protection index (IP)			20	
Operating temperature	°C		-5 ... 45	

Documents / Resources



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References