

AVANT X programmable multiband amplifier for terrestrial signals, with 32 digital programmable filters and output channelling selection

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

The multiband amplifier is equipped with 6 inputs: FM-4xLowVHF/HighVHF/UHF-CATV, and can achieve programmable amplification and balancing of the different RF inputs. In addition, it allows channelling selection (off-air or CATV) of the output signal, providing the benefict of being able to mix DTT signals with those coming from a CATV headend.

Thanks to ASuite, the multiband amplifier programming is very easy and intuitive using an Android or Windows/Mac application.

Ref.	532182
Logical ref.	AVANTXAM-C
EAN13	8424450215258

Packaging info

Box	1 pcs.

Physical data

Net weight	841.00 g

Gross weight	1,120.00 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
- Digital processing optimized for analog signals
- Automatic signal adjustment in each filter (AGC): and output signal manual regulation
- UHF/HighVHF/LowVHF digital filters with high selectivity: 30dB rejection (@ 1MHz)
- CATV signal input with extended frequency range: 54-1220MHz
- SAW filters (Surface Acoustic Wave) against LTE interference, with the best selectivity and stability
- Compatible with ISDB-Tb, ATSC, DVB-T/T2 and NTSC
- TForce Technology: terrestrial signal level always stable and adapted to its optimum value
- Storage multiple setup configurations, allows user to transfer data to other AVANT X units
- Zamak chassis provides high RF shielding
- Light-weight and compact multiband amplifier with a wide range of features (8.85" x 4.72" x 2.16")
- All the inputs support UHF, HighVHF and LowVHF
- Automatic balancing according to the programmed output level and equalization slope
- High output power
- Output channelling selection: off-air or CATV
- Allocation of filters to inputs without restraints
- Powering of pre-amplifiers or BOSS system

- LED indicators displaying both unit and signal status
- Easy-to-replace power supply

Discover

Avant X: A new evolutionary stage

Avant X is a full digital programmable single channel headend, which main mission is to achieve a programmable amplification and balance of different RF input signals.

- LowVHF+HighVHF+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 LowVHF+HighVHF+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 LowVHF+HighVHF+UHF input. It's compatible with ISDB-Tb, ATSC, DVB-T/T2 and NTSC.
  The output level is programmable between 30-55dBmV. Furthermore, an equalization slope of up to 8 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).

- CATV input: it has an extended frequency range (54-1220MHz). The gain and the slope (0-20dB) are programmables.

Choose the desired programming mode...

Avant X provides 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.

- Universal programmer (ref. 7234): The unit is compatible with the programmer, ensuring

backwards compatibility.

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 LowVHF/HighVHF/UHF filters' gain.

Technical specifications : Ref. 532182

Number of inputs		6				
Number of outputs		1				
Output channelling		CATV / Off-air				
Bands		LowVHF	FM	HighVHF	UHF	CATV
Frequency range	MHz	54 ... 88	88 ... 108	174 ... 216	470 ... 698	54 ... 1218
Number of filters		--	--	--	32	--
Channels per filter		--	--	--	1 ... 4	--
Gain	dB	75	30	75	75	40
Gain adjustment range	dB	AGC	5 ... 30	AGC	AGC	10 ... 45
Manual regulation after auto-adjustment	dB	-3 ... 3	-5 ... 5	-3 ... 3	-3 ... 3	--
Slope regulation	dB	--	--	--	0 ... 8	20
Input level	dBmV	-20 ... 40	15 ... 40	-20 ... 40	-20 ... -20	--
Output level DIN45004B	dBmV	62	62	62	62	62
Output level EN50083	dBmV	66	66	66	66	66
Programmable output level	dBmV	30 ... 55	20 ... 45	30 ... 55	30 ... 55	--
Noise figure	dB	9	--	7	6	8
Selectivity	dB	> 50	> 20	> 50	> 50	--
Powering per inputs	Vdc	12	0	12	12	0
Max current input	mA	70	0	70	70	0
Input voltage	Vac	110 ... 230				
Mains frequency		50 Hz / 60 Hz				
Max. current	mA	250				
Max. power consumption	W	14				
Protection index (IP)		20				
Operating temperature	°F	23 ... 113				