

DSP35SAT^{evo}

Programmable Multiband Amplifier

- ✓ **Total output level max 123dBμV**
- ✓ **50dB digital filters on adjacent channels**
- ✓ **Single filter selectable bandwidth**
- ✓ **Dual-stage input pre-amplifiers**
- ✓ **LTE 700 filters for 4/5G interference protection**
- ✓ **Satellite input 38 dB gain**
- ✓ **Autotuning for automatic channel scanning**



Programmable compact multi-input multiband amplifier to digitally filter, convert and equalize DVB-T / T2 channels. The built in high output amplifier allow the use in medium or large multi dwelling units.



MODEL		DSP35SATEVO
TV TERRESTRIAL		
NUMBER OF INPUTS	4	1 FM/DAB; 1 VHF/UHF; 2 UHF
INPUTS FREQUENCY RANGE	MHz	FM (87.5... 108) / DAB (170... 240) VHF (170... 230) - UHF (470... 694)
SINGLE CHANNEL FILTERS		32
NUMBER OF CHANNEL PER FILTER		1 (with channel to channel conversion)
INPUT TOTAL LEVEL RANGE	dBμV	FM 35... 90 / DAB 35... 90 - BIII 40... 110 - UHF... 45... 110
FM/DAB INPUT ATTENUATOR	dB	30 (adjustable 0... -30)
VHF/UHF INPUT AMPLIFIERS	dB	0/+15/+30
BIII/DAB/UHF INPUTS A.C.G. RANGE	dB	40 dB
DIGITAL FILTERS SELECTIVITY	dB	≥50 (Adjacent channels)
SELECTABLE FILTER MODE		Standard (8MHz) / Narrow (-500KHz) / Wide (+750KHz)
GAIN	dB	VHF 58 - UHF 68
OUTPUT LEVEL RANGE	dBμV	96... 116
BIII/DAB ADJUSTABLE GAIN	dB	0... -10
UHF ADJUSTABLE SLOPE	dB	0... -10
MAX TOTAL VHF-UHF OUTPUT LEVEL	dBμV	123 (IM3 DIN 45004B - 60 dBc)
MAX OUTPUT LEVEL WITH 6 MUX	dBμV	116
MAX REMOTE POWER BIII/DAB-UHF		12V / 24V 100 mA
SATELLITE		
NUMBER OF INPUT	1	950... 2.150MHz
SAT INPUT TOTAL LEVEL RANGE	dBμV	60... 100
GAIN	dB	38
ADJUSTABLE GAIN	dB	0... -15
ADJUSTABLE SLOPE	dB	0... -7
MAX TOTAL OUTPUT LEVEL	dBμV	119
MAX LNB REMOTE POWER		13/18V 22KHz 600mA
COMMON		
RETURN LOSS IN/OUT	dB	>12
TEST OUTPUT		1 (-30 dB)
USB CONNECTOR		USB 1.0 / 2.0 Type B
MAXIMUM CONSUMPTION		20Vcc 0,45A-9 W (+ Remote power)
OPERATING TEMPERATURE	°C	-5... 50
DIMENSIONS	mm	193 x 149 x 36

Special Features

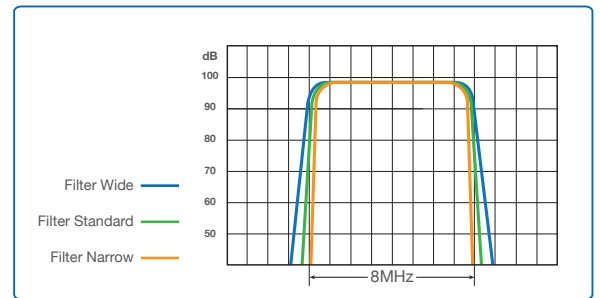
Optimised filters

For each channel, the most suitable output filter can be selected to achieve the best quality.

Standard: Filter with standard width.

Narrow: Narrow filter for adjacent channels.

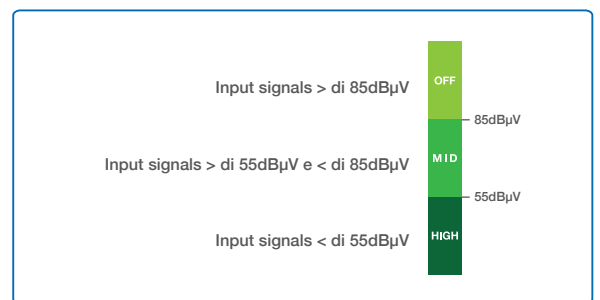
Wide: Wide filter for low quality (non-adjacent) channels.



Dual-stage input amplifiers

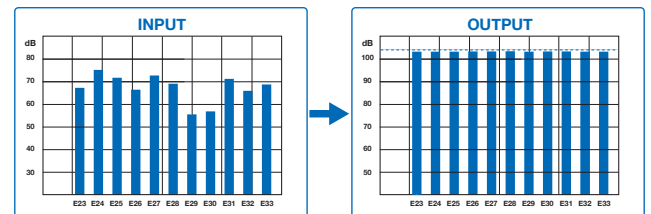
All inputs dedicated to digital terrestrial signals are equipped with **two-stage input amplifiers** that can be configured to obtain three different A.C.G. working windows.

This feature makes it possible to receive signals at very low levels without the need for active antennas or external amplifiers.



Automatic equalization and slope adjustment

Once the configuration has been transmitted, each filter is automatically equalized to obtain a perfectly flat output spectrum. If the characteristics of the system require it, a positive SLOPE can be added to compensate the attenuation of the coaxial cables. The presence of automatic gain control C.A.G, which operates independently and in real time for each filter, ensures output signals with levels that are always constant over time.



Three Programming Options



Direct Programming

The main parameters are directly controllable via keys and a 24-character display.



Android smartphone programming

With the new LEM USB application, configuration and file storage operations are made even easier and more intuitive.



AutoTuning channels scanning

To speed up programming operations, the Auto-tuning function can be used, which automatically scans and memorises the channels received from the antennas.

Connection Diagram

