

Digital channel amplifier

WWK Alpha+ **DVB-T2**



WWK ALPHA+ is a new generation, digital selective amplifier. Designed and produced by TELKOM-TELMOR based on the brand new technologies to offer:

- high selectivity + 32 filters
- high gain + AGC
- protection from unwanted signals (LTE, 5G)
- best possible output signals, no unwanted signals

This device will be the best choice as a first active device in terrestrial television signal distribution network and other signals (e.g. using ports AUX, DAB*, FM).

Offers adjustable output level from 98 to 118 dB μ V + possible equalization.

Each DVB-T/T2 signal can be configured separately according to input and desired output frequency as well as output level. Additionally, it is also possible to check the output power level at selected frequencies (dynamic measurement). Installation and parameter adjustment are done by local manipulator and are visible on large display VFD (2x16 characters).

We also have the option of filtering LTE channels from the 700 and 800 MHz bands and the ability to power antenna preamplifiers connected to the ports (VHF / UHF 1..4).

Test point with 30dB attenuation will allow you to use it for measurements on simple meters or for connecting the signal to optical distribution systems without additional accessories in the form of attenuators.

The narrow housing and external power supply allow the device to be placed in all kind of mounting cabinet.

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Key features and functionalities

- Digital signal processing
- FM, VHF/UHF 1-4 inputs
- 32 channel filters
- High filter selectivity $>35\text{dB}$
- Max output level $-118\text{dB}\mu\text{V}$
- UHF and VHF filtering
- New generation filters LTE/5G
- Automatic and manual preamplifier adjustment
- Active antennas power supply (12V DC)
- Automatic Gain Control (AGC)
- Minimum input level from $40\text{dB}\mu\text{V}$
- Auto output power equalization
- Adjustable cable power loss correction
- Low power consumption $<20\text{W}$
- Large VFD display - 2x16 characters
- Control buttons on the amplifier's pane
- Individual adjustment of output levels
- Power input signals measurement
- Built-in European channel plan
- Input band auto scan function
- Built-in overvoltage and short circuit protection
- DAB mode (VHF bandwidth) with level adjustment
- AUX port for connecting a modulator or a headend
- Test point -30dB will allow you to connect all kinds of signal meter and will also be an ideal signal source for optical installations.

TECHNICAL PARAMETERS

NAME/ PARAMETERS		WWK Alpha+		
		FM	AUX	VHF/UHF1-3 VHF/UHF-4/DAB
Bandwidth	/			
Operating frequency range	MHz	87,5-108	47-862	170-230 470-862
Gain	dB	35/25	22/10	>70
Gain adjustment	dB	20	20/10	20
Equalization	dB	-	-	0-9
Selectivity	dB	-	-	$35 \pm 1\text{MHz}$
Separation between inputs	dB	-	-	$>35\text{dB}$
Inputs mismatch attenuation	dB	>10	>10	>10
Nosie figure	dB	<7	-	-
Max output level (DIM 45004B)	$\text{dB}\mu\text{V}$	118	112	118
Antenna preamplifiers power supply	V/mA	-	-	12V/50
Working temperature	$^{\circ}\text{C}$	0..+50		
Dimensions	mm	200 x 190 x 48		
Net weight	kg	0,3		
Package	/	box		

Technical parameters are subject to change without prior notice.

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