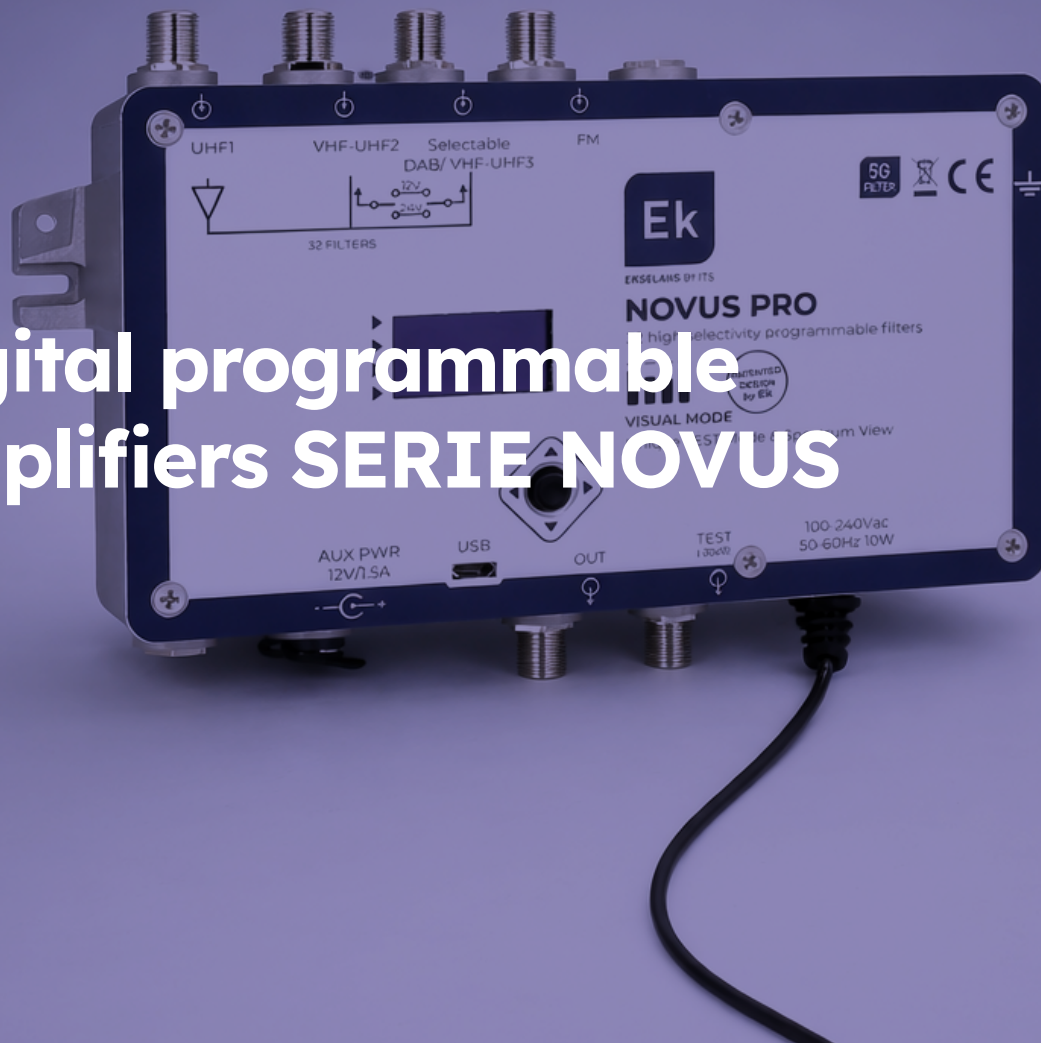


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Digital programmable amplifiers SERIE NOVUS



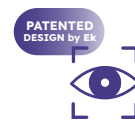
SERIE NOVUS

Our new range of NOVUS series digital programmable amplifiers redefines signal amplification and processing with an advanced architecture that integrates 32 ultra-selective digital filters and a series of advanced technical features, some of which are patented by EK. This range is divided into two lines: the **mast series**, designed for installations close to the antenna, and the **indoor series**, intended for indoor mounting, offering higher performance and more configuration options.

The new generation of programmable amplifiers with advanced and patented modes that redefine the standard.

KEY TECHNICAL FEATURES:

- / **SPECTRUM Mode:** Enables real-time RF spectrum visualization, allowing precise filter configuration through an intuitive multi-directional joystick control system.
- / **VISUAL Mode:** Patented EK technology that allows filter configuration and editing directly from a field strength meter, streamlining operations during on-site installations.
- / **TEST Mode:** Advanced diagnostic function to verify the status of the installation, ensuring proper signal distribution and enabling the detection of potential infrastructure issues.
- / **STATUS Mode:** Real-time system status monitoring for improved operational control.
- / **Channel Conversion:** Advanced digital processing that enables frequency remapping, optimizing signal distribution in installations requiring multiplex reorganization.
- / **High-Resolution OLED Display:** Allows clear visualization of all critical system parameters, enhancing accuracy during setup and maintenance.
- / **Redundant Power Supply Input:** Dedicated input to ensure uninterrupted operation in the event of a main power failure, increasing system reliability.
- / **Next-Generation Hardware:** High-quality components that guarantee stability, reliability, and superior performance.
- / **Extended Warranty**



VISUAL Mode



Spectrum Mode



TEST Mode



STATUS Mode



High-quality OLED screen



Intuitive configuration via multi-directional joystick



Manual and automatic programming



Independent output level configuration for each MUX



Channel conversion



New hardware with top-quality and highly reliable components



Input for redundant power supply



Extended warranty

DIGITAL PROGRAMMABLE AMPLIFIERS NOVUS MAST

REFERENCE	NOVUS MAST		
Code	071022		
	UHF1	UHF2	FM/BIII/DAB
Inputs	1	1	1
Frequency range	470-694MHz	470-694MHz	88-240 MHz
Max. gain	>50dB Autoreg	>40dB Autoreg	12dB
Input sensitivity (AUTOSEARCH) typ.	40dBuV	50dBuV	-
Number of filters	32*		-
Attenuation control (general)	0...20dB+AGC		0...20dB
Attenuation control (individual)	0...10dB		-
Max. input level (Total)	94dBuV	100dBuV	-
Max. output level	94dBuV (DIN45004B)		-
Max. output level (10MUX)	86dBuV		-
RF outputs	TER / TEST -6dB		
Noise figure	-	-	<6dB
Preamp power supply	-	12V 100mA máx	-
Power supply	12V DC*		
Power consumption	<4W		
Operational temperature range	-10...45°C		
VISUAL mode	Screenless filter adjustment and editing		-

*Power supply FA 12S 500 sold separately

- / 3 inputs (1 x FM + BIII + DAB, 1 UHF, 1 UHF)
- / 2 outputs (TER / TEST -6dB)
- / Output level 94dBuV (DIN45004B) / 86dBuV (10MUX)
- / 32 ultra-selective digital filters
- / Gain >50dB auto-regulated
- / Automatic search for digital multiplexes
- / Joystick programming
- / VISUAL mode for filter adjustment and editing without a screen (EK patented), using a field strength meter.
- / Processing functionality for channel conversion
- / Individual output level adjustment
- / Real-time automatic gain control
- / 12V preamplifier power supply
- / easy mAgnek system - patented and exclusive by EK.



* Number of filters for UHF inputs. If the DAB input is selected, 7 filters will be assigned to this band and 25 to the remaining UHF inputs.

DIGITAL PROGRAMMABLE AMPLIFIERS NOVUS

REFERENCE	NOVUS		
Code	071023		
	UHF1	UHF2	FM/BIII/DAB
Inputs	1	1	1
Frequency range	470- 694MHz	470- 862MHz	88-240 MHz
Max. gain	>65dB Autoreg	>55dB Autoreg	12dB
Input sensitivity (AUTOSEARCH) typ.	40dBuV	50dBuV	-
Number of filters	32*		-
Filter selectivity	Optimal/Smooth		-
Attenuation control (general)	0...20dB+AGC		0...20dB
Attenuation control (individual)	0...10dB		-
Slope	0...10dB		-
Max. input level (total)	90dBuV	100dBuV	-
Max. output level	110dBuV (DIN45004B)		-
Max. output level (10MUX)	105dBuV		-
RF outputs	TER / TEST -15dB		
Noise figure	-	-	<6dB
Preamp/LNB power supply	-	12V 100mA máx	-
Power supply	12V DC		
Power Supply Unit	12V / 1.2Amp (included)		
Power consumption	<5W		
Operational temperature range	-10...45°C		
Display	OLED		
Status monitor	Internal temperature		
TEST mode	Installation verification		
SPECTRUM mode	Quick filter visualization and editing		
VISUAL mode	Filter adjustment and editing without a screen		
Language	Spanish/English/French/Italian		
FW update	PC connection via USB		
Password	4-digit PIN		

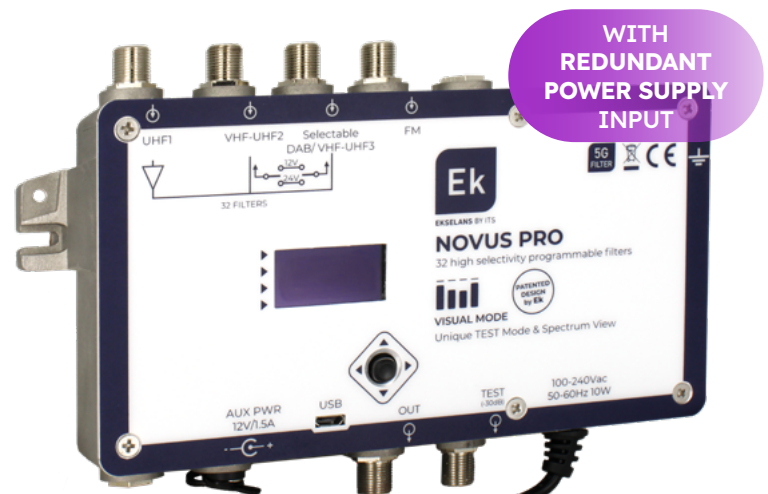
- / 3 inputs (1 x FM + BIII + DAB, 1 UHF, 1 UHF)
- / 2 outputs (TER / TEST -15dB)
- / Output level 110dBuV (DIN45004B) / 105dBuV (10MUX)
- / 32 ultra-selective digital filters
- / Gain >65dB auto-regulated
- / Automatic search for digital multiplexes
- / Joystick programming Simple navigation through the menu
- / Processing functionality for channel conversion
- / Individual output level adjustment
- / Real-time automatic gain control
- / 12V preamplifier power supply
- / TEST mode to identify installation defects
- / SPECTRUM mode for quick filter visualization and editing
- / VISUAL mode for filter adjustment and editing without a screen (EK Patented)
- / Status monitor for internal operation diagnostics



DIGITAL PROGRAMMABLE AMPLIFIERS NOVUS PRO

REFERENCE	NOVUS PRO			
Code	071020			
	UHF	BIII/UHF	DAB/BIII/ UHF	FM
Inputs	1	1	1	1
Frequency range	470-694MHz	BIII 174-230MHz UHF 470-694/ 790/862MHz	DAB 195-240MHz BIII 174-230MHz UHF 470-694/ 790/862MHz	88-108 MHz
Max. gain	>75dB Au- toreg	>65dB Autoreg		28dB
Input sensitivity (AUTOSEARCH) typ.	40dBuV	50dBuV		-
Number of filters	32*			-
Filter selectivity	Optimal/Smooth			-
General attenuation control	0...20dB+AGC		0...20dB	
Individual attenuation control	0...10dB		-	
Slope	0...10dB		-	
Max. input level	90dBuV	110dBuV		-
Max. output level	124dBuV (DIN45004B)			-
Max. output level (10MUX)	116dBuV			-
RF outputs	TER / TEST -30dB			
Noise figure	-			<6dB
Preamp/LNB power supply	-	0V/12V/24V 100mA máx		-
Power supply	100-240Vac / 50-60Hz			
Redundant power supply	12V (Jack 2.1mm)			
Power consumption	<10W			
Operational temperature range	-10...45°C			
Display	OLED			
Status monitor	Voltage and internal temperature			
TEST mode	Installation verification			
SPECTRUM mode	Quick filter visualization and editing			
VISUAL mode	Filter adjustment and editing without a screen			
Language	Spanish/English/French/Italian			
FW update	PC connection via USB			
Password	4-digit PIN			

- / 32 ultra-selective digital filters
- / Gain >70dB self-regulating
- / Automatic search for digital multiplexes
- / Programming with Joystick - Simple navigation through the menu
- / Processing functionality for channel conversion
- / Individual output level adjustment
- / Real-time automatic gain control
- / Preamplifier power supply: 12V and 24V
- / LNB power supply (NOVUS PRO ICT)
- / Suitable for common telecommunications infrastructure (ICT) installations with more than 30 outlets
- / Input for optional redundant power supply
- / TEST mode to identify installation defects
- / SPECTRUM mode for quick filter visualization and editing
- / VISUAL mode for filter adjustment and editing without a screen (EK Patented)
- / Status monitor for internal operation diagnostics
- / 4 inputs (1 x FM, 1 x VHF + DAB + UHF selectable, 1 x VHF/UHF selectable, 1 x UHF)
- / 2 outputs (TER / TEST -30dB)
- / Output level: 124dBuV (DIN45004B) / 116dBuV (10MUX)

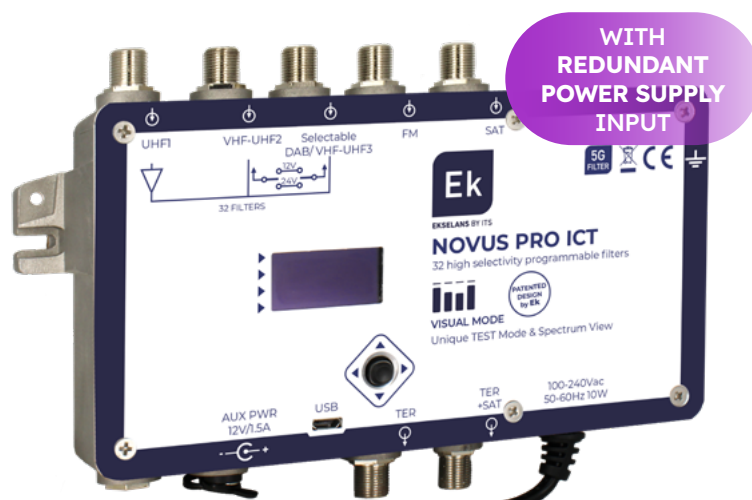


DIGITAL PROGRAMMABLE AMPLIFIERS

NOVUS PRO ICT

REFERENCE	NOVUS PRO ICT				
Code	071021				
	UHF	BIII/UHF	DAB/BIII/ UHF	FM	SAT
Inputs	1	1	1	1	1
Frequency range	470-694MHz	BIII 174-230MHz UHF 470-694/ 790/862MHz	DAB 195-240MHz BIII 174-230MHz UHF 470-694/ 790/862MHz	88-108 MHz	950-2150 MHz
Max. gain	>70dB Autoreg	>60dB Autoreg		24dB	40dB
Input sensitivity (AUTOSEARCH) typ.	40dBuV	50dBuV		-	-
Number of filters	32*			-	-
Filter selectivity	Optimal/Smooth			-	-
General attenuation control	0...20dB+AGC		0...20dB	0...20dB	
Individual attenuation control	0...10dB		-	-	
Max. input level	90dBuV	110dBuV		-	-
Max. output level	120dBuV (DIN45004B)			-	-
Max. output level (10MUX)	112dBuV		-	119dBuV IMD3 -35dB	
RF outputs	SAT+ TER/ TER				
Noise figure	-		<6dB	<8dB	
Preamp/LNB power supply	-	0V/12V/24V 100mA máx	-	13V/18V/ Bypass & 0/22kHz 300mA máx	
Power supply	100-240Vac / 50-60Hz				
Redundant power supply	12V (Jack 2.1mm)				
Power consumption	<15W				
Operational temperature range	-10...45°C				
Display	OLED				
Status monitor	Voltage and internal temperature				
TEST mode	Installation verification				
SPECTRUM mode	Quick filter visualization and editing				
VISUAL mode	Filter adjustment and editing without a screen				
Language	Spanish/English/French/Italian				
FW update	PC connection via USB				
Password	4-digit PIN				

- / 32 ultra-selective digital filters
- / Gain >70dB self-regulating
- / Automatic search for digital multiplexes
- / Programming with Joystick - Simple navigation through the menu
- / Processing functionality for channel conversion
- / Individual output level adjustment
- / Real-time automatic gain control
- / Preamplifier power supply: 12V and 24V
- / LNB power supply (NOVUS PRO ICT)
- / Suitable for common telecommunications infrastructure (ICT) installations with more than 30 outlets
- / Input for optional redundant power supply
- / TEST mode to identify installation defects
- / SPECTRUM mode for quick filter visualization and editing
- / VISUAL mode for filter adjustment and editing without a screen (EK Patented)
- / Status monitor for internal operation diagnostics
- / 5 inputs (1 x FM, 1 x VHF + DAB + UHF selectable, 1 x VHF/UHF selectable, 1 x UHF, 1 x SAT)
- / 2 outputs (TER / TER + SAT)
- / DTT output level: 120dBuV (DIN45004B) / 112dBuV (10MUX)
- / SAT output level: 119dBuV (IMD3-35dB)



ACCESSORIES

CM COMPACT PLUS 8S4

REFERENCE		FA 12S 500
Code		052007
Outputs	N°	2
Frequencies	MHz	47-862
Passband loss	dB	<4
Output voltage	Vdc	12
Maximum current	mA	500
Power supply	Vac	100/240



FA 12S 500

REFERENCE	CODE	DESCRIPTION
FA 2600P	071010	External power supply for redundancy in NOVUS PRO and NOVUS PRO ICT



FA 2600P

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