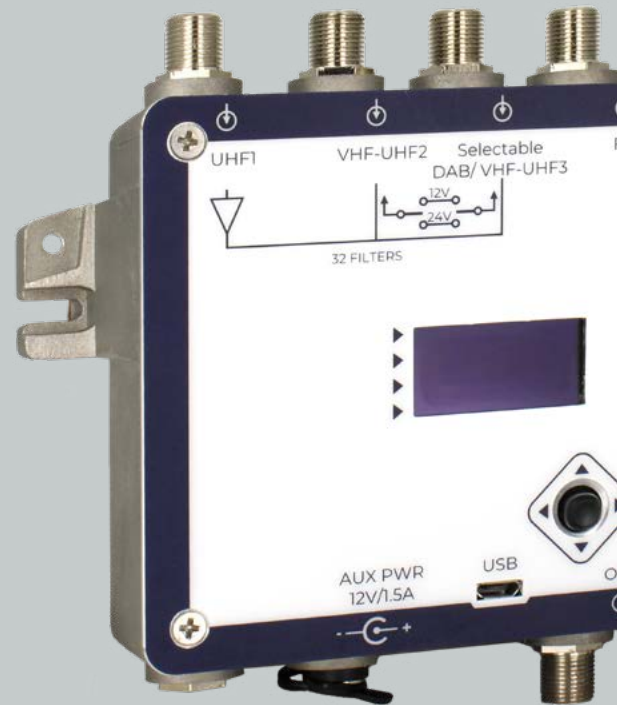




EKSELANS BY ITS



PROGRAMMABLE AMPLIFIERS NOVUS PRO



ENTER THE EK WORLD

NOVUS SERIE

Our new **NOVUS PRO** range redefines signal amplification and processing through an advanced architecture that incorporates 32 ultra-selective digital filters and a set of high-level technical features, some of which are patented by EK.

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**

NOVUS PRO is part of a new generation of programmable headend units developed by EK, combining excellence and competitiveness for a constantly evolving market.



Redundant power input details
(NOVUS PRO and NOVUS PRO ICT)

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 Autoreg	>65dB Autoreg		28dB
Input sensitivity (AUTO-SEARCH) 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			

* 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.

- ✓ 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
- ✓ Preampifier 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)



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				

* 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.

- ✓ 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
- ✓ Preampifier 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

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



FA 2600P



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