

E10000X 10kW4U

FM AMPLIFIER

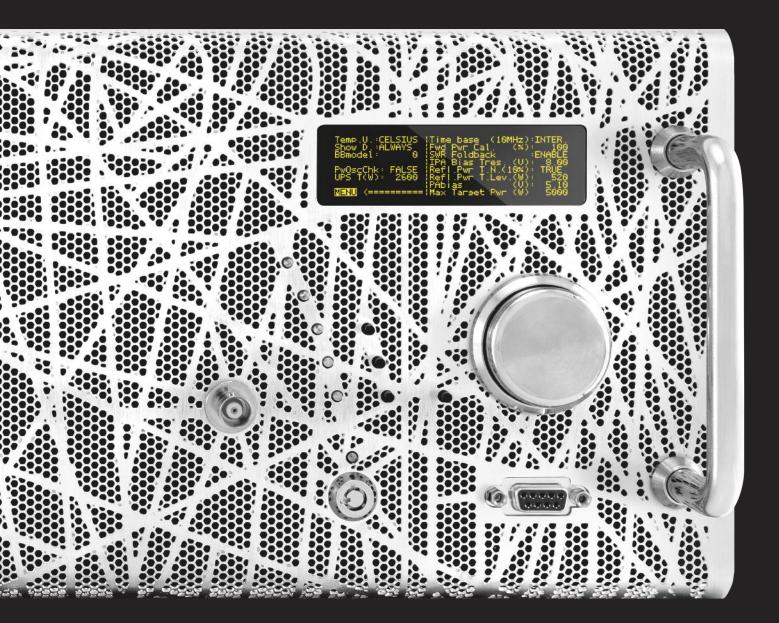


READY FOR **CDR** AND **DIGITAL** STANDARDS

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our technologies



THE RESULT OF 10 YEARS OF RESEARCH IN ENERGY SAVING

The new E10000X amplifier is the latest of a series of Elenos devices, from the Italian manufacturer that proudly boasts a world record: being the first, ever, to concern itself with energy conservation in the context of broadcasting.

Attention is paid to the environmental impact of transmitting stations and it has now also become very important for energy conservation of radio broadcasters. As early as 2003, with the project in the "IceFet" series (amplifiers and E3000 and ETG3000 transmitters integrated in 4 RU), the highest possible energy efficiency was being targeted with the available technology at the time. The market trend for limiting consumption and costs was apparent, which is why the planning staff have prioritized this opportunity. In 2007 the economic crisis arrived, but at that time Elenos had already improved its products and had a complete catalogue with a very high energy efficiency range, which was ideal for adopting energy saving policies on consumption. The possibility of programming power, already present in the original projects, was then further improved, allowing for an even more significant saving on electricity.

FM AMPLIFIER HIGH POWER - READY FOR CDR AND DIGITAL STANDARDS

REVOLUTIONARY

It is the result of a long investment in research and of the very high competence of Elenos' Team. So the revolutionary E10000X has finally arrived! It is a highly powerful FM amplifier that can boast an unbeatable range of compactness, electrical efficiency and weight.

The apparatus can be contained in just 4 rack units, but can provide 10kW of RF power in the 87.5-108 MHz range with a total electrical efficiency within 70% and 75% in FM transmission.

E10000X is a highly versatile and effective solution, and can be installed in stand-alone mode, or used as a reserve for more powerful systems, but can also be used as a base module for very powerful amplifiers.

FM AMPLIFIER HIGH POWER - READY FOR CDR AND DIGITAL STANDARDS



CRISIS BREEDS OPPORTUNITY

Elenos is an Italian company based in the city of Ferrara and the leader of a group that includes brands such as ITELCO and Electrosys.

For Elenos, being an Italian company means knowing how to combine excellence and flexibility and knowing how to transfer these qualities to its products.

Elenos's care for the environment, that from the start of the 2000's attracted the interest of broadcasters more sensitive to these issues, with the arrival of the economic crisis from 2007 onwards became successful as a response to the growing need to manage budgets, but without compromising on the quality of the equipment and their capacity of coverage.

Today E10000X is the heir to this business philosophy that has two concepts at its roots: responsibility and innovation. This equipment looks to the future of international broadcasting because it represents a real and convenient solution, both to the problems of business management, and to the challenges that the world imposes on us.

FM AMPLIFIER HIGH POWER - READY FOR CDR AND DIGITAL STANDARDS

CDR Ready

E10000X is designed to be ready for digital standards as CDR.

With a simple command, the apparatus can be switched to analog mode, and will meet all required performance parameters.

Features:

Smart Design	Total control
Extremely small dimensions,	Accurate, detailed data on the device's
lightweight, clean layout, easy maintenance	operation, available at an analytical
and servicing.	level (voltages, currents, powers,
Low energy consumption	temperatures, efficiency, protection
Highly reduced electricity consumption and	settings, audio levels, communications).
operating costs thanks to innovative and	Remote connection possible via SMS,
accurate design techniques.	GPRS, SNMP and WEB.
Reliability	Digital ready
Very high reliability and a capacity to	The FM Amplifier is ready for
maintain operating functionality even under	analog+digital or fully digital
extreme conditions, thanks to intelligent	transmissions. With the new Elenos
protection systems, Icefet technology and	FM Amplifier you will catch the best
Lifextender algorithms.	opportunity to face future FM digital
	challenges.

FM AMPLIFIER HIGH POWER | E10000X READY FOR CDR

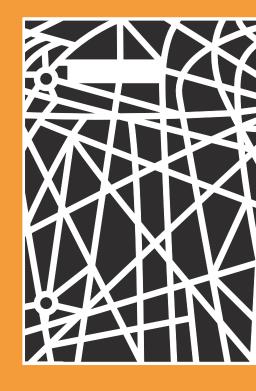


GENERAL DATA			
ουτρυτ Νο	minal Power	10000 W Analog Mode; 3000 W Mixe 1300 W Full Digital	ed Mode;
Operating	band	87.5 ÷ 108 MHz	
RS232/RS4	85	Yes. Connector DB9 female	
Points of	measure	RF Sample	
Displayed	Parameters	More than 50 parameters displaye graphic OLED	ed on a wid
Adjustmer		From the frontal panel through (OLED/from P
	L-DMOS in amplifier stage	14 × BLF188XR	
	stage technology	ICEFET & ECOSAVING	
	s: Rack units	4U	
Dimensior	is: W - H - D	48.5 - 17.6 - 74 cm	
Weight		45 Kg	
	power supplies	3 (93 % of efficiency)	
	cooling fans	6 Controlled speed	
	connector	1 + 5/8"	
	connector	N	
F PERFORMAN			
Output in		50 Ω	
Automatic	RF power control	Stabilizes the output power at t value	the set
Overall (utput power RF stability	+/- 0,1 dB	
VSWR		2:1 at full power. Automatic pow reduction beyond 1.7:1 in foldba High speed protection against op short circuit.	ack mode.
Driving p	ower	1.8W *	
Protectio	ns	Proportional protection against temperature, currents, VSWR. Smart protections against the pr of faults.	

FM AMPLIFIER HIGH POWER | E10000X READY FOR CDR

INSTALLATION REQUIREMENTS		
Power supply	230/400 VAC 50 ÷ 60 Hz	
Power consumption (typical)	13.7 KW Analog Mode	
Overall efficiency (typical from -3 dB to Pnom)	70 ÷ 75 % within 87.5 ÷ 108 MHz	
Power factor	> 0.95	
Current Connsumption @ 230VAC/single phase Current Consumption @ 400VAC/three phase	60 A	
Cooling system	Forced air-cooling variable flow	
ENVIRONMENT	Forced all -cooling variable from	
Temperature range (operating)	-5 ÷ +45 °C, 23 ÷ 113 °F	
Temperature range (non operating)	-20 ÷ +55 °C, -4 ÷ 131 °F	
Humidity range (operating)	95% @ 40 °C, 104 °F	
Humidity range (non operating)	90% @ 55 °C, 131 °F	
Altitude range (operating)	<3000 meters / <9840 Feet	
Altitude range (non operating)	<15000 meters / < 49200 Feet	
TELECONTROL & TELEMETRY		
Remote control	Yes	
Remote control, dry contacts	Yes	
SNMP option	Yes	
Web option	Yes	

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