



AMPLIFIERS
TRANSMITTERS
ANTENNAS
ACCESSORIES

TX10425TX

LCD Version

BROADBAND POWER

PRELIMIINARY VERSION

TX10425TX

Features

1. Extremely compact modular construction.
2. Supply section separated from RF section in order to guarantee ease of use and maintenance.
3. RF section totally in broadband, no optimization needed in case of frequency change
4. Exceptionally high gain P.A. and high efficiency with new high power Mosflect Pallet.
5. Low driving power (lower than 3W) with LD (Low Drive) option.
6. Automatic gain control for an absolute stability of the power output.
7. New design Splitter and Combiner that allowed the maximum RF efficiency.
8. Full-range protection system for the single components of the amplifier to guarantee an high efficiently functioning.
9. Very high redundancy, if one or more power amplifier modules fails (totally or partially) the amplifier automatically reduces output power to a safe value but continues transmitting. In case of faulty of one or more power supplies, the amplifier continue to work with reduce power.
10. User-friendly LCD control panel and display for easy setting and monitoring of all the operation parameters.
11. Easy maintenance through the use of standard components and clean mechanical design.
12. Easy Maintenance extremely reduced through the choice of advanced project solutions and the use of high quality components.
13. Interfeaceable with all the RVR's standard telemetries.

The configuration

Thanks to the modularity of the system can be simply realized all the configurations demanded from the customer for every kind of application. In a particular for some power range can be chosen between various solutions having the same output power but that use modules type and number different, answering to the requirements of the customers.

The availability in RVR's catalogue of a complete range of passive products like power combiner (2, 3, 4 and 5 ways), hybrids at 3 dB, high power commutators also switchless, patch-panel mechanics and motorizes, concurs in the realization of systems perfectly corresponding with the demands of the project.

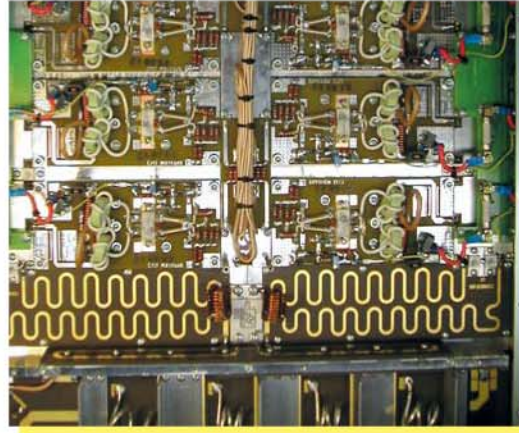
Through its modular nature this family of equipments concurs an easy and economic composition of 1 + 1 and N + 1 redundant systems with the maximum optimization of the components and spare parts.

These specifications are subject to change without notice.

Broadcast
EQUIPMENT



Rear view of the power amplifier



Internal design

TECHNICAL SPECIFICATIONS

Model	TX5225TX	TX10425TX
Output power	5KW modular	10KW modular
Output power adjustable	0 - 5 KW	0 - 10 KW
RF output connector	1+5/8" EIA flange	1+5/8" EIA flange
Spurious and harmonics emissions	Respect relevant FCC and CCIR standards	
Frequency range	87.5 MHz to 108 MHz in 10kHz steps	
Frequency stability	1ppm	
Modulation stability	Respect relevant FCC and CCIR standards	
Modulation system	F3E	
Operation modes	Mono - Stereo (L & R) - MPX - AES/EBU (Optional)	
AF Input impedance	600 Ohms or 10 Kohms selectable	
Audio Input level	from -13 dBm to +14dBm	
AF amplitude response	<0,1 dB from 40Hz to 100kHz	
Signal to noise ratio	> 80 dB RMS at 75 kHz peak deviation, 50msec, de-emphasis	
AF harmonic distortion (THD)	<0,1 % between 40 Hz to 156 kHz at 75 kHz deviation	
Stereo crosstalk	> 50 dB (typical 60 dB)	
Power supply	Three-phases 380 - 415 VAC with neutral, 50-60 Hz	
Power factor	> 0,95	
Temperature range	-10 C to +50 C	
Remote control	RS232, RS485, TCP/IP and parallel interface	
• Serial Interface	RS232 (DB9 female connector to link the amplifier with external devices). I2C (DB9 female connector for I2C bus networking)	
• Telemetry Interface	7 analog outputs (FWD PWR, RFL PWR, Temperature, VPA, IPA, Power Input, Internal SWR) 4 Digital Inputs 8 open-collector digital outputs	



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