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## 150W H.F. SDR DIGITAL TRANSCEIVER MOD. TR-560-A



- Frequency range 1,6-30MHz.
- Resolution 1Hz.
- Stability 0.5ppm
- Number of channels to memorize 250.
- Modes J3E (BLS, BLI), A1A, J2A, F1B.
- Filters 3KHz, 1.8KHz, G.M.D.S.S.
- Alimentation 220Vac  $\pm$ 10% (with external power supply mod. FA-450-A).

### Options:

- A.L.E.: Automatic search of the best communication channel.
- High speed data modem: 9600 bps in HF for sending texts, fax, images.
- Transmission/Reception data software with error correction.



Completely solid state. As it made with modular technology, it is easier to repair.

**OPTIONS:** A.L.E. (Automatic search of the best communication channel).  
High speed data modem: 9600 bps in HF for sending texts, fax, images.  
With ARQIVE software with error correction.

Digital Design

RS-232-C Control

**150W H.F. SDR DIGITAL TRANSCEIVER MOD. TR-560-A**

**TECHNICAL CHARACTERISTICS**

**TRANSMISSION**

Output power	150W R.M.S.
Power reduction	-3dB; -6dB; -10dB.
Harmonics radiation	<-55dBc
Spurious radiation	<-55dBc
Side band non-desired attenuation	<-60dBc
Audio response	300-3000Hz.
Micro; Line; Data; Manipulator, I/Q Data Input.	
Tuning power for antenna automatic coupler.	
Continuous operation regime.	
SWR tolerance	<4:1
Completely digital design (except RF power amplifier and Power Supply).	

**RECEPTION**

Selectivity:	6KHz; 3KHz; 1.8KHz; Filter AFSK (1700hz).
A.G.C. rise time	1ms.
A.G.C. fall time	5ms; 10ms; 50ms; 100ms; 500ms; 1s; 5s; 10s.
Manual adjustable A.G.C. threshold from 1µV. Up to 500µV.	
Possibility to silence the Rx.	
Build with adjustable Squelch .	
Selective digital pre-selector adjusted automatically to the reception frequency.	
Input selection of RX:	Bypass Digital pre-selector Bandpass filter
Selection of amplifier of +10dB. Ip=+45.	
Sensibility:	Better than 1µV for 10dB s/n
Independent outputs	Line and speaker
Dynamic range	-119dB up to 0dB.

**MECHANICAL SPECIFICATIONS**

External measurements:			
Transceiver TR-560-A	Width	19".	
	Height	4U.	
	Depth	600mm.	
Power Supply FA-450-A	Width	19".	
	Height	2U.	
	Depth	600mm.	
Total weight		27Kg.	

**ACCORDANCE WITH**

EN61000-3-2 (Electromagnetic compatibility).  
 EN61000-3-3 (Electromagnetic compatibility).  
 89/336/CEE Electromagnetic compatibility).  
 73/23/CEE (Low voltage directive).  
 ETSI EN301929-1.  
 ETSI EN300773-1.  
 UIT-R M.625-3

**ENVIRONMENTAL SPECIFICATIONS**

Operation temperature	0 to 50°C.
Environmental humidity	95%.

**ACCESORIES PROVIDED**

Control commands for RS232.
Operation software for PC.
Power Supply FA-450-A

**ACCESORIES NOT PROVIDED**

Radiant system.
A.L.E.
High speed data modem.
Control processor computer.