



**ELTRONIKA** SRL



Rack 19"-20U (optional)

**1300W  
OUTPUT POWER**

**LDMOS Technology TV Transmitter  
TXUP1500LD**

**TXUP1500LD**

**Caratteristiche principali:**



- Alta qualità Video/Audio
- Amplificazione classe AB
- Alimentazione switching-mode
- Display LCD per il controllo dei parametri
- Gestione completa della macchina tramite microprocessore
- Disponibilità di telecontrollo dell'amplificatore finale
- Visualizzazione degli allarmi di massima potenza, SWR, temperatura, sbilanciamento, tensione di alimentazione
- Completa ridondanza di funzionamento

**TXUP1500LD**

**Main features:**



- High Video/Audio quality
- Class AB amplification
- Switching-mode power supply
- LCD Display to check the parameters
- Managed completely by microprocessor
- The final amplifier may be remotely controlled
- Display of the alarms for maximum power, SWR, temperature, unbalancing, power supply voltage
- Complete working redundancy

**TXUP1500LD**

**Características principales:**



- Alta calidad de Video/Audio
- Amplificación clase AB
- Alimentación a "Switching mode"
- Display LCD para el control de los parametros
- Gestion completa del equipo a travez de microprocesador
- Disponibilidad de telecontrol al amplificador final
- Visualización de las alarmas de maxima potencia, SWR, temperatura, desbalance y tension de alimentacion
- Redundancia completa de funcionamiento

## TECHNICAL SPECIFICATIONS

### RF SECTION

Frequency range	470 - 860MHz
Output power	1300W PEP
Vision / Sound power ratio	10/1 single sound - 20/1/0.2 dual sound
Out stage technology	Solid State LDMOS
Vision / Sound amplification	Common
Standards	G, I, K, M
Sound transmission	FM single sound - Dual sound coding IRT - NICAM 728
Harmonics and spurious emission	In compliance with CCIR rec.
Intermodulation products from vision and sound	56dB
Frequency stability	2.5ppm (option 0.05ppm)

### VISION SECTION

Video input	BNC 75 connector
Nominal input level	1Vpp $\pm$ 6dB
Return loss	30dB
DC Restoration	Clamped to the blanking level without affecting the burst
White limiter	At 90% picture signal without affecting the chrominance

### Transmission characteristics

Sideband spectrum response	According to the standard
Amplitude-frequency response	According to the standard
Group delay variation without receiver pre-correction and TV demodulator in flat	$\pm$ 35ns
Non-linearity distortion (10 to 75% mod.)	5%
Differential gain (10 to 75% mod.)	5%
Differential phase (10 to 75% mod.)	5°
Signal-to-random-noise ratio (weighed 0.2 to 5MHz)	60dB
Blanking level variation	2%
2T k factor	2%

### SOUND SECTION

Nominal input level ( $\pm$ 50kHz dev.)	-10 to +8dBm
Input impedance	600 balanced
Pre-emphasis	50 s

### Transmission characteristics

Amplitude-frequency response	40 to 15000Hz $\pm$ 0.5dB
Total harmonic distortion	0.5%
FM Signal-to-noise ratio (referred to $\pm$ 50kHz dev. $f = 400$ Hz)	60dB (weighed)
AM Signal-to-noise ratio	50dB (referred to 100%)
AM Synchronous modulation	40dB (referred to 100%)

### REMOTE CONTROL

Parallel interface	On/Off, Alarms, Interlock
Serial interface	RS232 (Full monitoring and management)

### GENERAL

Power supply voltage	3x380VAC, $\pm$ 10% (other on request)
Frequency	50-60Hz, $\pm$ 5%
Temperature operating range	0 to 45°C
Altitude	Up to 2,500 meters ( 2,500m with additional cooling system)
Power consumption (cooling system included)	3.4kWA (black level)
Power factor	0.9
Cooling	Forced air
Dimensions	n. 1 Rack 19"-20U (Optional)

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