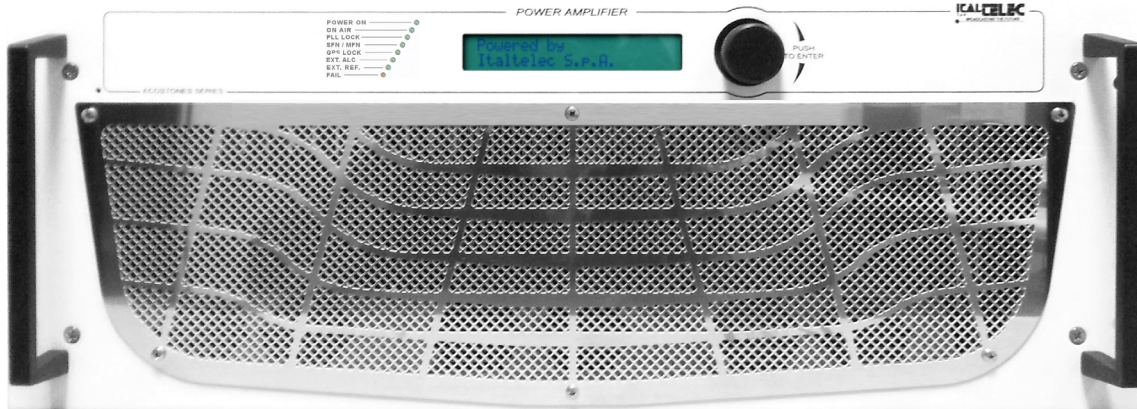


DTV AMPLI TX 300-1000

Stand-Alone Amplifier or Compact Transmitter with Integrated Modulator



Main Characteristics

- High efficiency, low power consumption
- Available in all Analogue standards
(PAL, SECAM, NTSC) with digital processing
for high performances
- Available in all Digital standards
(DVB-T/T2, ISDB-T/Tb, ATSC)
- Available in band I - III - IV - V
- Up to 1000Wrms with LDMOS technology
- Integrated Linear & Non-Linear Adaptive Precorrector
- 2 ASI inputs with seamless and priority
- IP-to-ASI input option
- MFN or SFN networks application
- Internal GPS receiver
- Web Server, SNMP Protocol

DTV AMPLI TX 300-1000

Stand-Alone Amplifier or Compact Transmitter with Integrated Modulator

GENERAL		
Frequency Range	Band I, III, IV, V	
Channel Bandwidth	6, 7, 8 MHz	
RF Load Impedance	50 ohms, 1:1 VSWR over any single TV channel	
RF Output Connector	7/16 or 7/8	
AC MAINS		
AC Line Voltage	3-phase 50/60 Hz, 380 to 415 V	
AC Line Variation	10% to -15%	
Power Factor	> 0.97	
Power consumption	2626VA @max output COFDM	
ENVIRONMENTAL		
Altitude	Up to 4,000m above sea level	
Ambient Temperature	14° to 113° F (-10° to 45° C) at sea level	
Humidity	Up to 95%, non-condensing	
Cooling Method	Forced Air	
Acoustic Noise	< 65 dBA (measured 1m in front of cabinet)	
ANALOG		
Tv Standards	B/G/D/K/K1/M/N	
Colour Systems	PAL, NTSC	
Video Input Interfaces	2 BNC 75Ω, 1Vpp±6 dB.	
Modulation Depth	5±15 %	
Audio Input Interfaces	2 XLR 600Ω/5 KΩ, balanced / unbalanced, 0dBm -6dB +21dB	
Audio encoder mode	Mono/Stereo/Dual Sound	
Fm Deviation	Up to 100 KHz (200 KHz for standard M), Hard Limiter 1KHz step	
Power Output	up to 1.5kWps	
Output Power Reduction	0 to -10dB	
ECHO CANCELLER (optional)		
Cancellation Level	30dB	
Maximum Echo Level	+ 15dBc (Over the main signal)	
RF Sample Level	0dBm for transposer nominal power	
MECHANICAL		
Dimensions (WxHxD)	mm 484x176x500	
Weight (approx.)	Kg 32	
COFDM: DVB-T/T2, ISDB-T/Tb (SBTVD)		
Systems	ISDB-T, ISDB-Tb, DVB-T, DVB-T2	
Digital Inputs	ISDB-T/Tb: 3 BNC 75Ω ASI (Hierarchical up to 3 Layers) DVB-T/T2: 2 BNC 75 Ω, DVB-ASI (Hierarchical) IP-To-ASI: RJ45	
Crest Factor	Maximum 13 dB	
Shoulder Level	> 40dB	
MER	> 37dB	
Harmonics (before filter)	< -40dB	
Central Carrier Suppression	> 75dB	
Frequency Stability (without ext. ref.)	± 150 Hz/month	
Frequency Offsets	1 Hz resolution	
MPEG packet length	188/204 byte packets, continuous and burst	
Network Operations	MFN, SFN	
Optional Output filter (NCM) with insertion loss	0.3 dB @ F.C. 0.7 dB @ F.C. ± 3.8 MHz	
Power Output	up to 600Wrms	
Output Power Reduction	0 to -10 dB	
8-VSB: ATSC		
System	ATSC A-53, 8-VSB DTV standard	
Digital Input	2 BNC 75 Ω ASI (SMPTE 310M)	
Internal Precise Frequency input	10 MHz (I)	
Internal Gps Receiver	Optional	
Phase Noise	< 104 dBc/Hz @ 20 kHz offset (ATSC A/64)	
Pilot Frequency Stability	Less than ±150 Hz/month Less than ±3 Hz with internal or external PFC	
Harmonic Radiation and Spurious	Meets mask requirements specified in FCC 5th and 6th report and order	
Sideband Performance	Compliant with FCC radiation mask, when measured at the output of optional output filter	
Optional output filter with insertion loss	0,3 dB @ F.C. 0,5 dB @ F.C. ± 2,7 Mhz	
Power Output	up to 1000Wrms	
Output Power Reduction	0 to -10 dB	