



COMPACT LINE **ATV**

VHF Bd. I & III 45-250 MHz
UHF 470-860 MHz

PAL/NTSC
15W OUTPUT POWER

**COMPACT TV TRANSMITTER
AND TRANSLATORS**

- High performance/price ratio project
- Excellent performances and reliability
- User friendly and easy maintenance
- Modular construction in 1 unity rack
- Can be configured as Transmitter or Repeater
- Integrated satellite receiver
- Double input with automatic changeover



TELEVISION

General Specifications

- Standard colors available : PAL / NTSC
- Canalization : B, D, G, K, M, N
- Frequency range : VHF Bd. I e Bd. III (45-90 MHz, 174-250 MHz – Ask for availability at the order)
UHF Bd. 4 e 5 (470 –860 MHz broadband)
- Frequency accuracy: standard 2 ppm (optional 0.5 ppm)
- Configuration : ATV-T Transmitter Input Audio / Video
ATV-R Repeater with VHF, UHF or Satellite band input
ATV-M Modulator with Audio / Video input and IF standard output
- Cooling system : heat sink and forced air
- Manual and automatic power control
- Fill and picture offset : optional
- Working Temperature : -10°C +45°C
- Relative maximum humidity : 95% non-condensing
- C.A. Power Supply : 90/260 VAC, 50/60 Hz
- Power consumption : depending on the version
- Dimensions : 1 standard rack unit 19"
- Weight : depending on the version (typical about 10 Kg)
- Telemetry : RS232, RS485, TTL output or relay according to request
- Standard telemetry : Power, Video, general alarm
- Standard radio-control : Enable through dry contact
- Input connectors : Video BNC 75 Ohm
Audio Cannon
BNC female RF Input / N female RF Output
SMB Monitor connector IF, OL and RF

Video Specifications

- Input impedance : 75 Ohm, 1 V pp, + - 3 dB adjustable, adaptation > 30 dB.
- Frequency response in video band : ± 0.5 dB
- Optional 8 cells video pre-correction
- DC recovery : clamped on synchronous peak
- Differential phase : $\leq 5\%$ (typical 3%)
- Differential gain : $\leq 5\%$ (typical 3%)
- S/N weighted : 65 dB
- 2TK factor : $< 1\%$
- ICPM : $< 3\%$

Audio Specifications

- Two inputs with automatic changeover control
- Input impedance : 600 Ohm or 10 kOhm balanced / unbalanced
- Nominal audio level : from -6 dB to +6 dB
- Pre-emphasys : 0, 50, 75
- Frequency response : $< \pm 0.5$ dB
- Total harmonic distortion : $< 0.5\%$
- S/N CCIR weighted : 60 dB
- S/N AM : 70 dB asynchronous,
55 dB synchronous

RF Section Specifications

- Power amplifier : LDMOS in A/B class technology, 10 W output power
- I.M.D at nominal power : better than -60 dB (with pre-corrector IF, VC -8 dB, S.C -10 dB, C:C -16 dB) (Power output adjustable up to 15 W)
- Output spurious and harmonics : < -60 dB (with output filter)

Repeater channel / IF Option Specifications

- Input band VHF I, VHF III, UHF (PAL e NTSC Canalization B, D, G, K, M, N)
- Input signal 0,1 – 20 mV , integrated 3 cells input filter
- Noise figure < 8 kTo (input signal 2 mV)

Integrated Satellite Receiver Option Specifications

- Input connector F female 75 Ohm
- Frequency Range : 950 7 2100 MHz L and C Band
- PLL tuning through menu settable
- Adjustable demodulation band from 18 to 36 MHz