



The unit is used to amplify VHF/UHF signals of 4 passive antennas and supply DC voltage to 3 active antennas without signal amplification.

Design

The unit is housed in a standard aluminium case with very good RF shielding and consists of the following sub-assemblies:

- small signal gain amplifier
- coaxial relay
- RF limiter

Special features

One amplifier channel is fed from two inputs with different polarisations. The selection of the polarisation will be done by a coaxial relay controlled via DC voltage (from amplifier output).

Technical data	measured at 25° C
Model number:	GTV2129
Item number:	(will be assigned after order)
Configuration:	
Amplifier	4 inputs, 3 outputs
DC bias	for 3 antenna feeds
RF specifications	
Impedance (Ohm):	50
Frequency range (MHz):	Amplifier 20...3000
Gain (dB):	8 +/-1.0
Gain flatness (dB):	+/-1.0
Noise figure (dB):	12 max.
VSWR:	2.0 : 1 max.
Intercept point (dBm):	
3rd order	+15
2nd order	+35
Input power (dBm):	+12 CW max.
DC output (Vdc):	DC bias +24
Load current (mA):	500 max.
Further specifications	
RF connectors:	N female, 50 Ohm
Power supply (Vac, Hz):	230, 50
Connector	circular type CA 3 GS
Temperature range (°C):	
Operating	-10...+70
EMC:	in accordance to Eur. standard EN 61000-6-1 & EN 61000-6-3
Dimensions:	
Height (mm)	approx. 600
Width (mm)	approx. 180
Depth (mm)	approx. 310
Lacquering:	painted RAL7000