



### Description:

Designed to satisfy requirements for building large cable TV network trunk lines and line extensions. It has been created using up-to date GaAs active components.

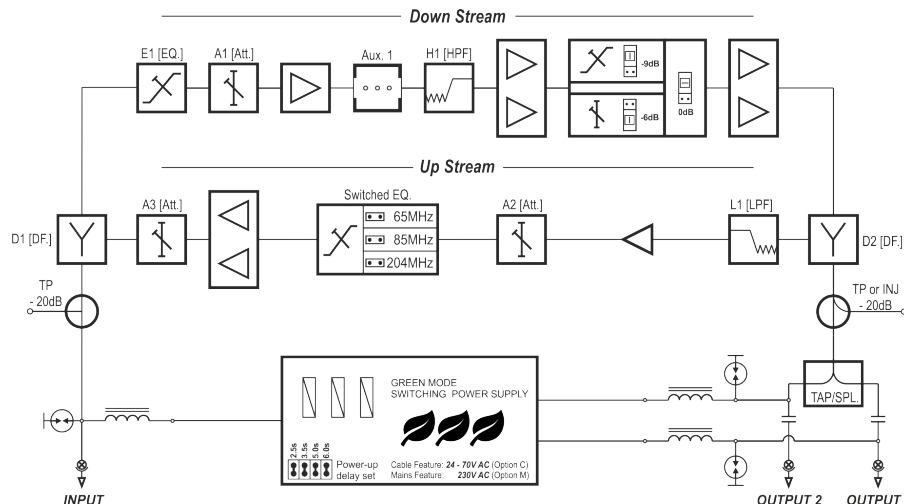
Hermetic casing protects the amplifier from environmental impact – dust and humidity.

### Features:

- High power output stage type GaAs
- Easily upgradeable up to **204MHz**
- Three ports with power-feeding capabilities
- Input and output test ports for reverse channel alignment
- Surge protection on all I/O ports
- Coaxial line power-feeding (**option C**)
- Water-resistant hermetic housing (**IP65**) for outdoor mounting
- Mains power-feeding (**option M**)
- Power-up delay start



Technical Specifications		Technical Specifications		Technical Specifications	
DOWN Stream		UP Stream		General Specifications	
Bandwidth	47 ÷ 1218 MHz	Bandwidth	5 ÷ 65/85/204MHz	Power Supply (Coaxial)	24 ÷ 70 VAC
Active Components	GaAs	Gain	28 dB	Power Supply (Mains)	230VAC ± 10% / 47 ÷ 63 Hz
Gain	43dB	Frequency Response	± 0.5 dB	Power-up delay start (Coaxial option only)	2.5s; 3.5s; 5.0s; 6.0s
Gain Flatness	± 0.5dB	Gain Flatness	± 0.75 dB	Power Consumption	15W
Noise Figure	≤ 6dB	Noise Figure	≤ 6 dB	Pass-through Current	≤7A AC
Return Loss	≥ 20dB / 75 Ω	Return Loss	≥ 20dB	Hum Modulation	65dB / ≤6A AC
Impedance Test Points	75Ω	Return Loss on test point	≥ 20dB	Operating Temperature	-40 ÷ 55°C
Input Attenuator	0 ÷ 20dB / 1dB pitch	Interstage Attenuator	0 ÷ 10 dB / 1 dB pitch	Dimensions	215 x 85 x 200 mm
Input Cable Corrector	0 ÷ 20dB / 1dB pitch	Output Attenuator	0 ÷ 20 dB / 1 dB pitch	Protection Level	IP65
Interstage Attenuator	0 dB or 6 dB	Equalizer Plug-In	0 ÷ 20 dB / 1 dB pitch	Weight	1.85 kg
Interstage Equalizer	0 dB or 9 dB	Attenuator Plug-In	0 ÷ 20 dB / 1 dB pitch	Number of Output Ports	2
Input/Output test ports	-20 ± 0.5 dB	Output test port	-20 ± 0.5 dB	Input/Output Connectors	PG11 on 5/8"
Impedance	75Ω	Input test port (injector)	-20 ± 0.5 dB	Test Point	F-Type
Output level @ CTB ≥ 60dB	117dBμV	Output level (IMD3rd ≥ 60)	119dBμV	Group Delay (f > 15MHz)	≤1 nsec @ 1MHz BW
Output level @ CSO ≥ 60dB	117dBμV	Output level (IMD2nd ≥ 60)	115dBμV	Transient Protection (kV, μs)	6, 1.2/50
		Impedance	75Ω	Emission (dBpW)	< 20
		Test Point Impedance	75Ω	Screening	> 85dB
		BER@107dBμV[256QAMx24]	< 1.0E-09		



CTA-1243UT Technical

DTK

CTA-1243UT Block Scheme