Cable TV Trunk Amplifier CTA-1236NT-D

1.2GHz 204MHz GaN GREEN POWER TECHNOLOGY IP65

Description:

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

Output power is achieved by means of Power Doubler type hybrid IC, which allows two coaxial lines instead of one to be supplied. Hermetic casing protects the amplifier from environmental impact – dust and humidity.

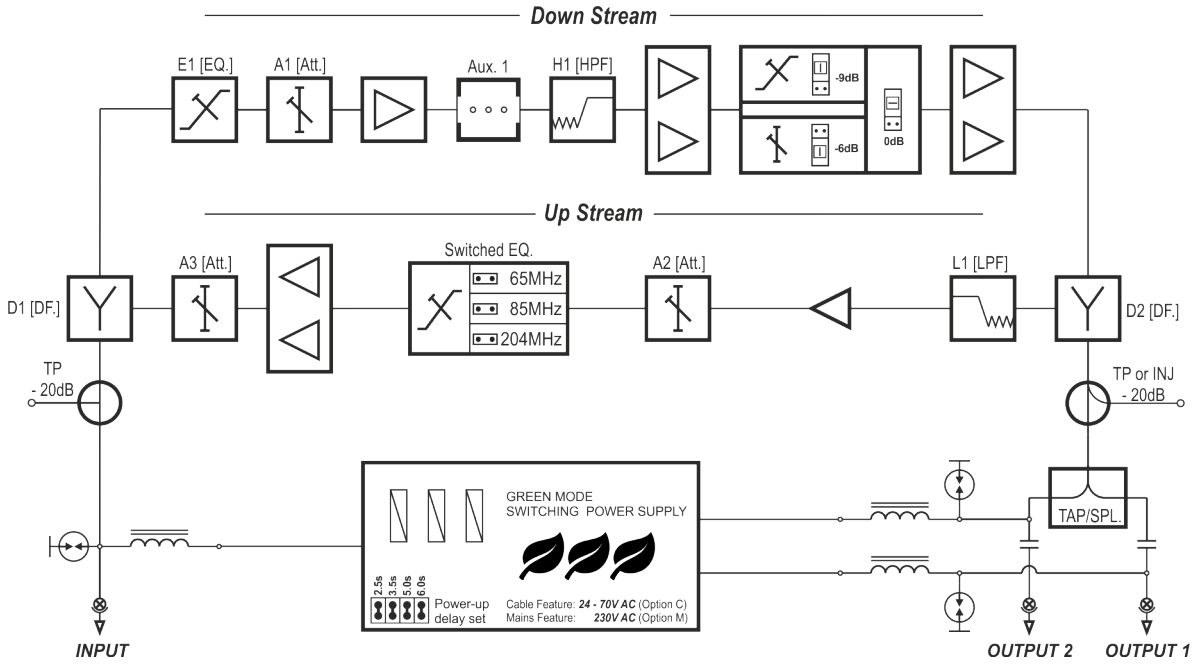
Features:

- High power output stage type GaN- Power Doubler
- 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
- Temperature Protection
- Mains power-feeding (*option M*)
- Power-up delay start (*option C*)

Technical Specifications	
DOWN Stream	
Bandwidth	85 ÷ 1218 MHz
Active Components	GaN
Gain	36dB
Gain Flatness	± 0.5dB
Noise Figure	≤ 7dB
Return Loss	≥ 18dB / 75 Ω
Input Attenuator	0 ÷ 20dB / 1dB pitch
Input Cable Corrector	0 ÷ 20dB / 1dB pitch
Interstage Attenuator	0 dB or 6 dB
Interstage Cable Corrector	0 dB or 9 dB
Input/Output test ports	-20 ± 0.5 dB
Output level CTB (@60dB)	118dBµV
Output level CSO (@60dB)	120dBµV

Technical Specifications	
UP Stream	
Bandwidth	5 ÷ 65/85/204MHz
Gain	28 dB
Gain Flatness	± 0.75 dB
Noise Figure	≤ 6 dB
Interstage Attenuator	0 ÷ 10 dB / 1 dB pitch
Output Attenuator	0 ÷ 20 dB / 1 dB pitch
Cable Corrector	0 ÷ 20 dB / 1 dB pitch
Output test port	-20 ± 0.5 dB
Input test port (injector)	-20 ± 0.5 dB
BER @ 107dBµV [256QAM x 24]	< 1.0E-09

General Specifications	
Power Supply (Coaxial)	24 ÷ 70 VAC
Power-up delay start (Coaxial option only)	2.5s; 3.5s; 5.0s; 6.0s
Power Supply (Mains)	230VAC ± 10% / 47 ÷ 63 Hz
Power Consumption	15W / 18.5W @Eco off
Pass-trough Current	≤7A AC
Hum Modulation	61dB / ≤6A AC
Operating Temperature	-20 ÷ 55°C
Dimensions	215 x 85 x 200 mm
Weight	1.85 kg



CTA-1236NT Technical

DTK

CTA-1236NT Block Scheme

For more information contact us at office@dtk-electronics.com or +35929718511