



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.

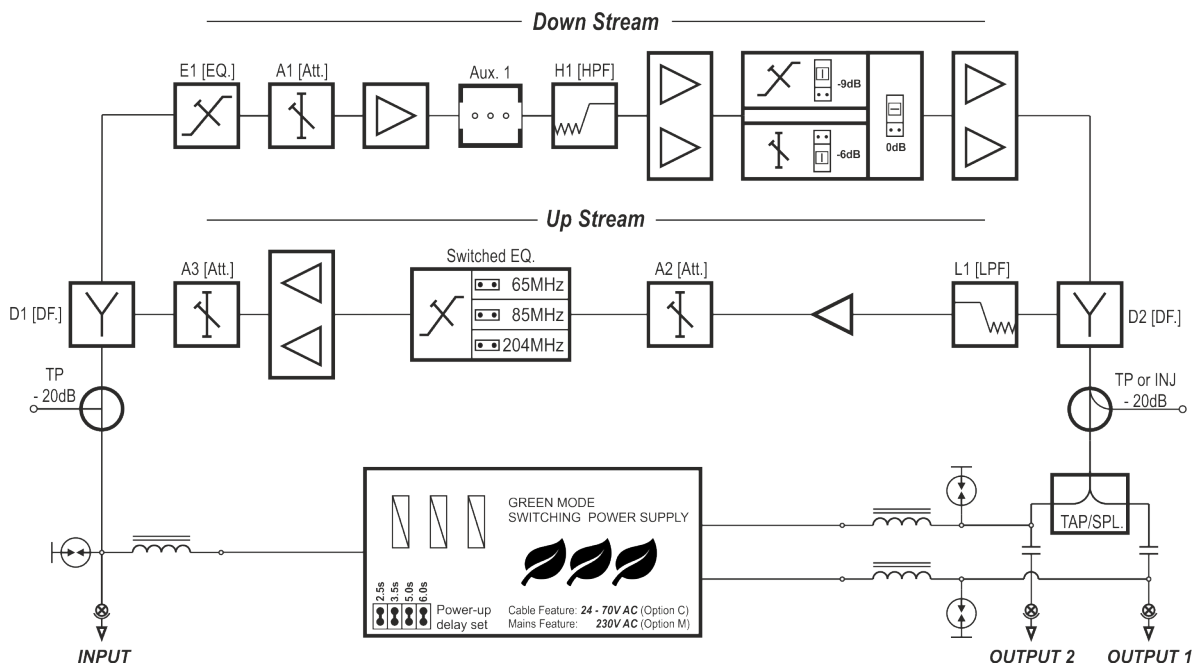
Features:

- 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**)



rev. 2-A

| Technical Specifications | | Technical Specifications | | General Specifications | |
|----------------------------|----------------------|-----------------------------|------------------------|--|---------------------------|
| DOWN Stream | | UP Stream | | | |
| Bandwidth | 85 ÷ 1218 MHz | Bandwidth | 5 ÷ 65/85/204MHz | Power Supply (Coaxial) | 24 ÷ 70 VAC |
| Active Components | GaN | Gain | 28 dB | Power-up delay start (Coaxial option only) | 2.5s; 3.5s; 5.0s; 6.0s |
| Gain | 36dB | Gain Flatness | ± 0.75 dB | Power Supply (Mains) | 230VAC ± 10% / 47 ÷ 63 Hz |
| Gain Flatness | ± 0.5dB | Noise Figure | ≤ 6 dB | Power Consumption | 15W / 18.5W @Eco off |
| Noise Figure | ≤ 7dB | Interstage Attenuator | 0 ÷ 10 dB / 1 dB pitch | Pass-through Current | ≤7A AC |
| Return Loss | ≥ 18dB / 75 Ω | Output Attenuator | 0 ÷ 20 dB / 1 dB pitch | Hum Modulation | 61dB / ≤6A AC |
| Input Attenuator | 0 ÷ 20dB / 1dB pitch | Cable Corrector | 0 ÷ 20 dB / 1 dB pitch | Operating Temperature | -20 ÷ 55°C |
| Input Cable Corrector | 0 ÷ 20dB / 1dB pitch | Output test port | -20 ± 0.5 dB | Dimensions | 215 x 85 x 200 mm |
| Interstage Attenuator | 0 dB or 6 dB | Input test port (injector) | -20 ± 0.5 dB | Weight | 1.85 kg |
| Interstage Cable Corrector | 0 dB or 9 dB | BER @ 107dBμV [256QAM x 24] | < 1.0E-09 | | |
| Input/Output test ports | -20 ± 0.5 dB | | | | |
| Output level CTB (@60dB) | 118dBμV | | | | |
| Output level CSO (@60dB) | 120dBμV | | | | |



CTA-1236NT Technical

DTK

CTA-1236NT Block Scheme