

1W~200W Digital TV Signal Strengthening(Supplementary) Repeater



Function and Characteristics:

Small and Medium Co-frequency Repeater for DVB-T Terrestrial Digital TV Broadcasting Mainly applies to the supplementary covering of weak signal area in the city with intensive buildings or the remote rural area. Having extended the covering range of digital TV network with higher cost-effective system network. Low noise, strong sideband suppression, strong anti-interference ability Power and gain auto-control, wide dynamic range Low delay technology Modular design, wide frequency and super linearity solid-state level amplification, applies to the retransmission of single or multiple channels digital TV signal. Working current, voltage, output power displaying Casting aluminum alloy, outdoor model; with the function of wind proofing, rain protection, lightning protection, etc. High reliability, small volume, easy to install and maintain 10. With over-VSWR, over-voltage, over-current and multiple lightning protective measures, etc. Remote control, with GSM short message alarming system extended interface (optional), realizing centralized monitoring management Independent intellectual property; amplifier, no power parts and remote monitoring system are all developed by ourselves and with international advanced . All performance and specifications

of this equipment comply with the technical requirements of national relevant standard and measure method.



Technical Specification:

» Frequency Range	» 470~860MHz
» Bandwidth	» 8MHz/7MHz/6MHz ≤100 MHz Applicable for single-channel and side-channel
» Input Power Range	» -80dBm ~-30dBm
» Nominal Output Power	» 1W~200W outdoor
» ICS (Interference Cancellation System)	» with ICS function of 50W to 200W repeater
» Maximum Gain and Error	» Gain control 0~10dB error ≤±1.0dB » Gain control 10~20dB error ≤±1.5dB
» Gain Modulation Range	» 0~ 25dB 0.5dB
» Automatism Level Control	» ≥20 dB
» VSWR	» ≤1.5 dB
» Loss by Reflection	» (normal work) ≥9.5dB
» In-band Flatness	» ±0.5dB fc±3.756MHz
» Propagation Delay Time	» ≤4μs
» Noise Factor	» ≤5 dB the maximum gain
» Stray Radiation	» ≤-36dBm 5MHz~1GHz except for frequency spectrum form
» Shoulder Ratio	» ≤-40dB input level: -25dBm ~ -55dBm
» Output Signal Shoulder and Out-of-band Rejection	» Accord with: GY/T 220.1—2006 standard
» Input and Output Characteristic Impedence	» 50W
» RF Input and Output Interface	» N type
» Power Supply	» AC 176V~242V 50Hz±1Hz
» Working Temperature	» -25 ~+55
» Storage Temperature	» -30 ~70
» Relative Humidity	» 95%
» Cooling	» natural cooling
» Atmosphere Pressure	» 86~106Kpa
» Altitude	» 5000m
» Machine Case	» Cast aluminium alloy, waterproof, outdoor
» Communication Management	» Remote monitoring, GSM message alarm (optional)
» Lightning Proof	» Could install the Power supply lightning proof-ware and feed line lightning proof-ware (optional)
» Dimensions	» 50W: 460(L)×350(W)×150(D)mm3(Depends on power classes)