



Outdoor Power Repeater

RETX-100-OD

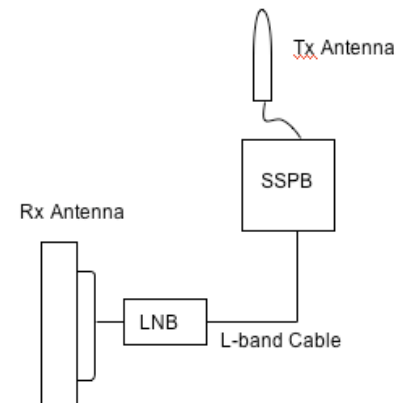
Remote Equipment Series

This is a low cost powerful solution to retransmit terrestrial Ku-Band signals using an outdoor SSPB (power amplifier with up-converter). The outdoor SSPB reduces the installation cost by eliminating the transmission line or waveguide and reducing the installation time and complexity. The SSPB itself is less expensive because there is no need for a more powerful unit to compensate for transmission line loss.

The outdoor SSPB can be installed in a stand alone or in a redundant configuration. An additional benefit of the redundant configuration is in situations where access to

Design

The Repeater consists of an RX antenna, LNB, Outdoor SSPB, TX antenna, Power Supply. Optional items include AGC control, SSPB Redundancy and Wireless Monitoring and Control. Coverage and performance of the repeater varies based on the type and gain of RX and TX antennas used in addition to the number of terrestrial Ku-band carriers.



Specifications

- Total signal power output +30 dBm (1 Watt) at 1 dB compression point
- Gain > 50 dB
- Input frequency range 950 to 1450 MHz or 950 to 1750 MHz
- Frequency stability +/- 25 KHz
- Local oscillator 10.00 GHz
- Output connector WR-75 flange
- Input connector F-type 75 Ohm for connection to Sat RX LNB cable
- RX antennas size range based on input signal strength from 0.4 m to 1.2 m dish
- TX antenna sector or omni (10 dBi gain) with antenna mounting kit
- Weatherproof enclosure



Options

- MDSA AGC Amplifier: This unit provides the system with significant flexibility and stability in the initial tuning of system. It also guaranties stable output power levels regardless of the reception conditions such as rain fade and power changes from the master distribution TX site.
- MDSA Wireless Monitoring & Control Unit: The M&C unit allows monitoring and control of the critical parameters of the repeater. The MDSA M&C is controlled wirelessly by the operator, which allows for great all repeater sites to be monitored and controlled from one main location.

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