

## 5W/10W/50W Fully Agile DVB-T/H Digital Repeater

### Special Features

- Broadband—Fully Agile
- Echo Canceller option
- High quality compact design
- Dual Mode, automatic switching
- High adjacent channel selectivity
- Ultra low phase noise
- Integral linear and non linear precorrection
- Comprehensive remote monitoring/programming



### Introduction

The E2265 is one product in a new range of high quality fully agile TV repeater systems providing state of art digital terrestrial transmission of TV programs. This DVB-T gap filler and transposer unit combines top performance with extensive features and simple operation. One of the many advanced features is the optional 'Echo Canceller' which allows higher transmission powers to be broadcast. This range is equally suitable for analogue broadcasting offering a simple upgrade path to subsequent digital operation. A wide range of filters and combiners are available to meet all transmission requirements.

### System Overview

The E2265 can operate equally for DVB-T and Analogue applications. The system detects the input signal and automatically switches to the relevant mode making it ideal for automatic switching between analogue and digital transmission. Being fully agile it is ideal for network operation.

This digital TV repeater has 3 integral agile modes of operations.

- DVB-T/H digital transposer with high adjacent channel selectivity.
- DVB-T/H digital gap filler with Echo Canceller
- Analogue TV transposer with excellent adjacent channel discrimination.

High reliability and robustness is designed in ensuring low cost of ownership.

### Specifications

<b>Power Output</b>	Digital: 5W/10W/50W rms Analogue: 20W/50W/200W p.s.
<b>Output Power stability</b>	±1.0dB in all operating modes
<b>Output Frequency stability</b>	<0.2ppm/year
<b>Operating Frequencies/ input and output</b>	Options for: Band III 174-230MHz UHF Bands IV & V: 470-860MHz
<b>RF Output Load Impedance</b>	50 ohm unbalanced
<b>RF Output Connector</b>	N female
<b>Spurious emission</b>	<-60dB at rated output power with output filter
<b>Receiver input</b>	-20 to -80dBm
<b>MER</b>	Better than 36dB, (input MER>40dB)
<b>Phase noise</b>	-70dBc@10Hz, -85dBc@100Hz-1kHz, -105dBc@10kHz
<b>Protections</b>	Overpower, VSWR, Overvoltage, Over current, Over temperature
<b>Power Requirements</b>	Single phase 100 to 240VAC
<b>Ambient Temperature Range</b>	+5°C to +45°C at an altitude up to 2500M
<b>Remote Control</b>	Aux port 25w; RS232, RS485, RJ45 Ethernet, SNMP Agent
<b>Dimensions and Weight</b>	2U 19" rack mounting: 483mm (W) x 600mm (D) <19kg