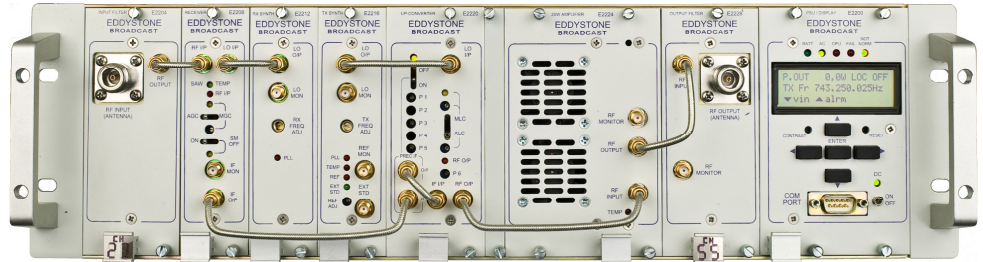


5W DVB-T/H & 20W Analogue TV Transposer

Special Features

- High quality, compact design
- Dual Mode
- Broadband Modules
- Fully Modular
- Choice of Output Filters
- LCD status display
- Ultra low phase noise
- Web based remote monitoring



Introduction

The S7520 is a high quality TV transposer family providing digital terrestrial transmission of TV programs using the traditional transposer method with off-air reception and non remodulation broadcasting. 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. Many of the modules are common to the remodulation/ transmitter derivatives reducing spares holding in a network operation.

System Overview

All the active parts of these transposers are contained within modules which plug into a motherboard inside a common system chassis. The high quality construction allows simple configuration and alignment changes and easy access for maintenance. Each sub-system function is contained within the appropriate module. The receiver module downconverts the input signal to a standard IF frequency; the associated low noise synthesiser, as the upconverter one, is programmable in 1Hz steps. The synthesisers can be externally locked making the systems ideal for the SFN and precision locked broadcast operation. Precorrection for the highly efficient class AB FET amplifier is provided at IF. The amplifier is cooled by dual front panel mounting fans. A standard output filter is housed within a front panel module.

The power supply/display module provides all the DC voltages for the system as well as the control system and status indications/ measurements.

Specifications

Power Output	Analogue: 20W p.s. Digital: 5W rms
Output Power stability	±0.5dB
Output Frequency stability	<0.2ppm/year
Operating Frequencies/ input and output	Options for: VHF Band I: 45-90MHz; Band III 174-230MHz UHF Bands IV & V: 470-860MHz
RF Output Load Impedance	50 ohm unbalanced
RF Output Connector	N female
Intermodulation distortion, Spurious emission	<-60dB at rated output power
Receiver input	-30 to -65dBm
MER	Better than 36dB
Phase noise	-70dBc@10Hz, -85dBc@100Hz-1kHz, -100dBc@10kHz
Protections	Overpower, Overvoltage, Over current, Over temperature
Power Requirements	Single phase 230VAC ±20% or 48VDC
Ambient Temperature Range	-10°C to +45°C at an altitude up to 2500M
Remote Control	Aux port 25w; RS232, RS485, RJ45 Ethernet
Dimensions and Weight	3U 19" rack mounting: 482mm (W) x 450mm (D) x 132mm (H). 16kg